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GOVERNOR



HAROLD LEGGETT, Ph.D.
SECRETARY

State of Louisiana
DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

Certified Mail No.

Activity No.: PER20070007
Agency Interest No. 126578

Mr. David V. Wise
Plant Manager
PO Box 358
Addis, LA 70710-0358

RE: Part 70 Operating Permit, Shintech Louisiana LLC – Shintech Plaquemine Plant 2
Shintech Louisiana LLC, Plaquemine, Iberville Parish, Louisiana

Dear Mr. Wise:

This is to inform you that the permit for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the ___ of _____, 2013, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Done this _____ day of _____, 2008.

Permit No.: 3063-V0

Sincerely,

Cheryl Sonnier Nolan
Assistant Secretary
CSN:ALR
c: EPA Region VI

**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

Shintech Louisiana LLC – Shintech Plaquemine Plant 2

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Shintech Louisiana LLC

Plaquemine, Iberville Parish, Louisiana

I. Background

Shintech Louisiana, LLC (Shintech), a wholly owned subsidiary of C-K Tech, Inc., is currently constructing Shintech Plaquemine Plant (SPP) on the west bank of the Mississippi River near Plaquemine, Louisiana in Iberville Parish. The current construction includes the following units:

- Utilities
- Chlor-Alkali (C/A) Unit
- Vinyl Chloride (VCM) Unit
- Polyvinyl Chloride (PVC) Unit

SPP is authorized under Title V Permit No. 1280-00118-V0 and PSD Permit No. PSD-LA-709 issued on July 27, 2005.

Shintech proposes a new project to construct and operate Shintech Plaquemine Plant 2 (SPP-2) at the same site.

This is the Part 70 operating permit for the facility.

II. Origin

A permit application and Emission Inventory Questionnaire were submitted by Shintech Louisiana LLC on November 14, 2007 requesting a Part 70 operating permit. Additional Information was received on February 12, 2008 and February 27, 2008.

III. Description

Chlor-Alkali Unit

The Chlor-Alkali (C/A Unit) will use an ion exchange membrane process to produce chlorine (Cl₂), Hydrogen (H₂), and sodium hydroxide (NaOH). The ion exchange membrane process does not use mercury or asbestos. The process reaction is an electrolytic reaction that converts salt solution to Cl₂ as follows:



Raw salt brine is brought to the plant through a pipeline and stored in a tank. The brine is crystallized in an evaporator and purified by ion exchanging resin. The purified brine is sent to the electrolyzer. Direct electric current is applied. The anode and cathode are separated by a

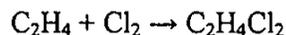
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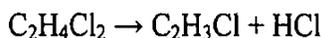
membrane to prevent the caustic soda from reacting with the chlorine. Cl_2 produced at the anode is cooled and sent to the Vinyl Chloride Monomer (VCM) unit as raw material. H_2 produced at the cathode is dehumidified and sent to other facilities including the boilers. A portion of chlorine and hydrogen gases is converted to hydrochloric acid for internal use. The lean caustic soda produced at the cathode is concentrated in an evaporative process to produce commercial grade caustic soda. Emissions from process equipment are controlled by absorbers.

VCM Unit

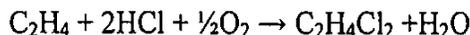
Ethylene is brought to the plant through pipeline. Chlorine is supplied by the C/A Unit. Ethylene is combined with Cl_2 in a direct chlorination reactor to form Ethylene Dichloride (EDC) as follows:



Crude EDC is purified and sent to cracking furnaces through storage tanks. The cracking furnaces provide heat to crack EDC yielding VCM and hydrogen chloride (HCl) as follows:



The VCM is purified and sent to storage spheres. EDC that was not cracked is sent back to the EDC purification train. HCl is recovered and used in a second EDC formation process called oxyhydrochlorination. The oxyhydrochlorination reaction is as follows:



Approximately 1.81 billion pounds of VCM product will be produced each year. Product VCM is sent to (1) the Polyvinyl Chloride (PVC) Unit, (2) a tank car loading facility for transport, or (3) a marine loading dock for shipment. Pure EDC can be transported through the marine loading dock by ship.

Emissions from process equipment are controlled by thermal oxidizers and nitrogen oxide (NO_x) Control.

The Gas Thermal Oxidizers are equipped with waste heat recovery boilers.

Supporting Facilities

Supporting Facilities include bulk truck loading and unloading areas, railcar loading and unloading areas, ship dock area, on-site utilities, steam-generating units, and a wastewater treatment facility (WWTF).

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Clean-burning fuels (natural gas and hydrogen) will be used to fire steam generating units (boilers), which are equipped with the low NO_x burners (LNB) and selective catalytic reduction (SCR).

The WWTF consists of a biological treatment system, pH adjustment basin, final basin, and sludge dewatering system.

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Emissions</u>
PM ₁₀	27.74
SO ₂	2.72
NO _x	44.15
CO	179.45
VOC *	32.40

***VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):**

<u>Pollutant</u>	<u>Emissions</u>
Acetaldehyde	0.007
Benzene	0.009
Chloroprene	0.005
Ethyl Chloride	0.17
Ethylene Dichloride	8.51
Ethylidene Dichloride	0.07
Formaldehyde	0.12
Methanol	0.27
Methyl Chloride	0.005
Toluene	0.004
1,1,2,2-Tetrachloroethane	0.004
1,1,2-Trichloroethane	0.15
Vinyl Chloride	5.34
Vinylidene Chloride	0.02

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*VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

Pollutant	Emissions
Total	14.68

Other VOC (TPY): 17.72

Non-VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

Pollutant	After
Ammonia	29.14
Carbon Tetrachloride	0.30
Chlorine	11.14
Chloroform	0.20
Chloroprene	0.005
Hydrochloric Acid	8.93
Total	49.72

Estimated actual emission increases due to the project in tons per year are as follows:

Pollutant	Contemporaneous Increase	Project Increase	Net Change	PSD/ NNSR Threshold	NSR Review Required
PM ₁₀	-	+ 27.74	+ 27.74	15 / NA	Yes
SO ₂	-	+ 2.72	+ 2.72	40 / NA	No
NO _x	-	+ 44.15	+ 44.15	40 / 25	Yes
CO	-	+ 179.45	+ 179.45	100 / NA	Yes
VOC	-	+ 32.40	+ 32.40	NA / 25	Yes

Prevention of Significant Deterioration (PSD) review is required for this project, which results in a significant increase in emissions of a regulated pollutant.

PSD is part of the federal New Source Review (NSR) permitting program for pollutants. SPP and SPP-2 are categorized as one of the 28 sources listed in Section 169 of the Clean Air Act. SPP is a major source under PSD. As a major source, all proposed SPP-2 attainment pollutants emitted in amounts greater than or equal to the PSD significance levels are subject to PSD review. PSD review is required for PM₁₀, NO_x, and CO.

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The SPP-2 will be located in Iberville parish, which is part of a nonattainment area for ozone. On June 15, 2005, the EPA revoked the 1-hour ozone ambient air quality standards and the Baton Rouge Nonattainment Area was reclassified as marginal for ozone precursors (NO_x and VOC) under the new 8-hour ozone standard. However, on October 3, 2007, the EPA issued a memorandum summarizing the implications of a December 22, 2006 U.S. Court of Appeals for the District of Columbia Circuit decision (South Coast v. EPA). In effect, the court's decision restores applicability thresholds and emission offsets held for nonattainment area classifications under the 1-hour ozone standard. EPA stated that it intends to undertake rulemaking to conform to the court's decision.

In anticipation of this rulemaking, Shintech voluntarily requests review of SPP-2 as if the project were subject to NNSR under the severe nonattainment area classification.

On May 27, 2005, LDEQ issued two Emission Reduction Credit (ERC) Certificates to Shintech. One reflected the transfer of 126 tons of VOC credits from BCP Liquidating, LLC (AI 121722), and the other the transfer of 65.5 tons of ozone season NO_x credits and 91.6 tons of non-ozone season NO_x credits from Terra Mississippi Nitrogen, Inc. (AI No. 2245).

On July 27, 2005, LDEQ issued Permit No. 1280-00118-V0 to Shintech. This permit relied on 50.30 tons/yr of ozone season NO_x credits, 70.41 tons/yr of non-ozone season NO_x credits, and 81.07 tons/yr of VOC credits. Shintech still retains 15.20 tons/yr of ozone season NO_x credits, 21.19 tons/yr of non-ozone season NO_x credits, and 44.93 tons/yr of VOC credits.

On August 4, 2006, LDEQ issued another Emission Reduction Credit (ERC) Certificate to Shintech. This certificate reflected the transfer of 65.5 tons of ozone season NO_x credits and 91.6 tons of non-ozone season NO_x credits from Terra Mississippi Nitrogen, Inc. (AI No. 2245). Giving Shintech a balance of credits of 80.70 tons of ozone season NO_x credits and 112.79 tons of non-ozone season NO_x credits.

Shintech will use 57.39 tons/yr of NO_x credits (23.91 tons of ozone season NO_x credits and 33.48 tons of non-ozone season NO_x credits) and 42.12 tons/year of VOC credits as offsets for NO_x and VOC emissions from the proposed plant at a 1.3 to 1 ratio. LAER will also be applied to emissions of NO_x and VOC.

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IV. Type of Review

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, Nonattainment New Source Review (NNSR) and Prevention of Significant Deterioration (PSD). PSD is required for PM₁₀, NO_x and CO emissions, which will be permitted under PSD-LA-731. New Source Performance Standards (NSPS) and National Emission Standards for Hazardous Air Pollutants (NESHAP) do apply.

This facility is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51.

LAER Analyses for NO_x and VOC

Utility Boilers EQT0112 and EQT0113 (EPN 2U-1 and 2U-2)

Shintech proposes to install and operate two boilers that will provide heat and steam for the Chlor-Alkali Unit and VCM Unit. Each boiler will have a maximum heat input rating of 250 MM BTU/hr. Both boilers will fire natural gas. Emissions of both NO_x and VOC are expected from the proposed boilers.

NO_x formation occurs by three fundamentally different mechanisms. The principal mechanism of NO_x formation in natural gas and hydrogen combustion is thermal NO_x. The thermal NO_x mechanism occurs through the thermal dissociation and subsequent reaction of nitrogen (N₂) and oxygen (O₂) molecules in the combustion air. Most NO_x formed through the thermal NO_x mechanism occurs in the high temperature flame zone near the burners. The formation of thermal NO_x is affected by three furnace-zone factors: (1) oxygen concentration, (2) peak temperature, and (3) time of exposure at peak temperature. As these three factors increase NO_x emission levels increase. The emission trends due to changes in these factors are fairly consistent for all types of natural gas/hydrogen fired boilers. Emission levels vary considerably with the type and size of combustor with operating conditions (e.g., combustion air temperature, volumetric heat release rate, load, and excess oxygen level).

The level of VOC emissions is dependent on the efficiency of natural gas combustion. Hydrogen combustion does not result in VOC emissions. VOC emissions are minimized by combustion practices that promote high combustion temperatures, long residence times at those temperatures, and turbulent mixing of fuel and combustion air. Boilers that are poorly designed and/or maintained may have inefficient combustion resulting in higher VOC emission rates. Sometimes, NO_x control systems such as low NO_x burners (LNB) and flue gas recirculation (FGR) may reduce combustion efficiency. Care must be taken to assure proper combustion when using these control systems.

EPA's RACT/BACT/LAER Clearinghouse (RBLC) was used to perform a search of all nationally permitted control technologies for natural gas and hydrogen fired boilers of similar

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size and duty. Based on the RBLC search results, the lowest permitted emission rates nationally are:

- 0.07 lb NO_x/MM BTU for Hydrogen Combustion Using LNB, FGR, and Selective Catalytic Reduction (SCR)
- 0.012 lb NO_x/MM BTU for Natural Gas Combustion using LNB, FGR, and SCR
- 0.0026 lb VOC/MM BTU for Natural Gas Combustion using Good Combustion Practices and Oxidation Control

Shintech proposes to match or surpass the above emission rates with the following LAER:

- 0.01 lb NO_x/MM BTU for Natural Gas/Hydrogen Combustion using LNB and SCR
- 0.0026 lb VOC/MM BTU for Natural Gas Combustion using Good Combustion Practices

Fugitive Emissions FUG0006, FUG0008, FUG0009, and FUG0010 (EPN 2U-4, 2M-8, 2M-9, and 2M-10)

Fugitive emission rates are estimates based on leak frequencies found in case studies. An average leak factor is used to determine what the fugitive emission rate is for an area, a facility, or an entire plant. These leak factors are often grouped by industrial categories.

Fugitive equipment leaks are controlled through Leak Detection and Repair (LDAR) programs. LDAR programs can be differentiated by four key criteria:

- Leak definition
- Monitoring frequency
- Properties of the monitored compounds
- Requirements for repair

40 CFR 63 Subpart H is the overall most stringent LDAR program. For VOC equipment leaks, Shintech proposes LAER as conducting an LDAR program as provided in 40 CFR 63 Subpart H.

VCM Cracking Furnaces EQT0122, EQT0123, EQT0124, & EQT0125 (EPN 2M-1, 2M-2, 2M-3, & 2M-4)

Shintech proposes to install and operate four VCM cracking furnaces. Each furnace will have a maximum heat input rating of 90 MM BTU/hr. The furnaces will fire natural gas. Emissions of both NO_x and VOC are expected from the proposed furnaces. Post combustion selective catalytic reduction (SCR) will be used to control NO_x emissions. SCR is a post-combustion control technology based on the chemical reduction of NO_x into molecular nitrogen (N₂) and water vapor (H₂O). A catalyst is used to increase the NO_x removal efficiency, which allows the process to occur at lower temperatures.

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NO_x formation occurs by three fundamentally different mechanisms. The principal mechanism of NO_x formation in natural gas and hydrogen combustion is thermal NO_x. The thermal NO_x mechanism occurs through the thermal dissociation and subsequent reaction of nitrogen (N₂) and oxygen (O₂) in the combustion air. Most NO_x formed through the thermal NO_x mechanism occurs in the high temperature flame zone near the burners. The formation of thermal NO_x is affected by three furnace-zone factors: (1) oxygen concentration, (2) peak temperature, and (3) time of exposure at peak temperature. As these three factors increase, NO_x emission levels increase. The emission trends due to changes in these factors are fairly consistent for all types of natural gas fired furnaces. Emission levels vary considerably with the type and size of combustor and with operating conditions (e.g., combustion air temperature, volumetric heat release rate, load, and excess oxygen level).

The level of VOC emissions is dependent on the efficiency of natural gas combustion. VOC emissions are minimized by combustion practices that promote high combustion temperatures, long residence times at those temperatures, and turbulent mixing of fuel and combustion resulting in higher VOC emission rates. Sometimes, NO_x control systems such as low NO_x burners (LNB) and flue gas recirculation (FGR) can reduce combustion efficiency. Care must be taken to assure proper combustion when using these control systems.

EPA's RBLC was used to perform a search of all nationally permitted control technologies for natural gas and hydrogen fired boilers of similar size and duty. Based on the RBLC search results, the lowest permitted emission rates nationally are:

- 0.009 lb NO_x/MM BTU for Natural Gas Combustion using LNB
- 0.005 lb VOC/MM BTU for Natural Gas Combustion using Good Combustion Practices

Shintech proposes to match the above emission rates with the following LAER:

- 0.009 lb NO_x/MM BTU for Natural Gas Combustion using LNB and SCR
- 0.005 lb VOC/MM BTU for Natural Gas Combustion using Good Combustion Practices

Gas Thermal Oxidizers EQT0126 and EQT0127 (EPN 2M-5 & 2M-6)

The Gas Thermal Oxidizers are used to dispose of waste gas combustible organic compounds from the process. The method of disposal is to oxidize organic compounds to carbon dioxide and water. When chlorinated organic compounds are part of the waste gas stream, the products of complete combustion include hydrochloric acid (HCl). The HCl will be removed by an HCl scrubber. Thermal oxidation provides safe, effective, and efficient control of almost any organic stream, provided that it is properly designed and maintained.

The heart of the thermal oxidizers is a nozzle-stabilized flame maintained by a combination of auxiliary fuel (natural gas), waste gas, and supplemental air. Upon passing through the

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flame, the waste gas is heated from its inlet temperature to its ignition temperature. Any organic stream and air mixture will ignite if its temperature is raised to a sufficiently high level. Therefore, the level of VOC control is determined by the residence time and temperature in the thermal oxidizer combustion chamber.

Pollutants that can be expected from the thermal oxidizers include products of combustion, i.e. PM₁₀ and NO_x, and products of incomplete combustion, i.e. CO and VOC.

EPA's RBLC was used to perform a search of permitted thermal oxidizers in similar industrial uses. Based on the RBLC search results, the lowest permitted emission rates nationally are:

- 0.025 lb NO_x/MM BTU
- 0.058 lb VOC/MM BTU and 99.9% Destruction of VOC

Shintech proposes to match the above emission rates with the following LAER:

- 0.02 lb NO_x/MM BTU
- 0.015 lb VOC/MM BTU and 99.99% Destruction of VOC

Diesel-Fired Emergency Engines EQT0115, 0116, 0121, and 0129 (EPN 2U-5, 2U-6, 2C-6, and 2M-11)

Shintech proposes to install and operate diesel-fired engines that will provide emergency services for the Utilities, Chlor-Alkali, and VCM Units. The engines will be operated for short periods each month for maintenance. Emissions of both NO_x and VOC are expected from the proposed engines.

NO_x formation occurs by three fundamentally different mechanisms. The principal mechanism of NO_x formation in diesel combustion is thermal NO_x. The thermal NO_x mechanism occurs through the thermal dissociation and subsequent reaction of nitrogen (N₂) and oxygen (O₂) molecules in the combustion air. Most NO_x formed through the thermal NO_x mechanism occurs in the combustion zone. The formation of thermal NO_x is affected by three factors: (1) oxygen concentration, (2) peak temperature, and (3) time of exposure at peak temperature. As these three factors increase, NO_x emission levels increase. The emission trends due to changes in these factors are fairly consistent for all types of diesel-fired engines. Emission levels vary considerably with the type and size of combustor and with operating conditions (e.g., combustion air temperature, volumetric heat release rate, load, and excess oxygen level).

The level of VOC emissions is dependent on the efficiency of diesel combustion. VOC emissions are minimized by combustion practices that promote high combustion temperatures, long residence times at those temperatures, and good mixing of fuel and

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combustion air. Engines that are poorly designed and/or maintained may have inefficient combustion resulting in higher VOC emission rates. Care must be taken to assure proper combustion. Good combustion practices include:

- Maintaining written operating and maintenance procedures;
- Properly trained operating personnel;
- Maintaining appropriate fuel-to-air ratio; and
- Proper design, fuel handling, sizing, and combustion air and fuel distribution.

Shintech proposes the following LAER for the emergency engines with horsepower ratings greater than 600 HP:

- 0.024 lb NO_x / HP-hr
- 0.00071 lb VOC / HP-hr

Shintech proposes the following LAER for the emergency engines with horsepower ratings less than 600 HP:

- 0.031 lb NO_x / HP-hr
- 0.0025 lb VOC / HP-hr

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

VI. Public Notice

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>, 200X; and in the <local paper>, <local town>, on <date>, 200X. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental

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Services Public Notice Mailing List on <date>. The draft permit was also submitted to US EPA Region VI on <date>. All comments will be considered prior to the final permit decision.

VII. Effects on Ambient Air

Dispersion Model(s) Used: AERMOD (Criteria Pollutants) and ISC3 (TAPs)

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Toxic Air Pollutant Ambient Air Quality Standard or (National Ambient Air Quality Standard {NAAQS})
PM ₁₀	24-Hour	3.72	150
PM ₁₀	Annual	0.63	50
NO _x	Annual	0.75	100
CO	1-hour	226.95	40,000
CO	8-hour	105.01	10,000
Ethylene dichloride	Annual	1.31	3.85
Vinyl chloride	Annual	1.56	1.19
Chlorine	8-hour	19.05	35.7

The toxics air quality dispersion modeling analysis was conducted in accordance with the approved air quality dispersion modeling protocol. For all TAPs other than vinyl chloride, the modeling results show that there were no ambient air impacts greater than ambient air standard (AAS), demonstrating compliance with LAC 33:III.5109.B. Vinyl chloride modeling results show that there were nine receptors with ambient air impacts greater than the AAS. The receptors are located along Evergreen Road and at a restricted public access cemetery located off Evergreen Road entirely within the boundaries of the Georgia Gulf Facility.

The vinyl chloride AAS is based on an annual average. Since the receptor locations are in areas that are uninhabited and restricted access, long-term exposure to vinyl chloride is not expected. Additionally, modeling results show that the Shintech facility's contributions to the vinyl chloride impacts are relatively minor. A neighboring facility's vinyl chloride contributions to the nine receptors make up a significant portion of the predicted concentrations.

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VIII. General Condition XVII Activities

Work Activity	Schedule	Emission Rates - tons					Non-VOC TAP
		PM ₁₀	SO ₂	NO _x	CO	VOC	
Equipment Opening at Turnaround	1/Year						<0.001
Equipment Opening at routine operations	4/Year	0.07					<0.001
Sampling	4/Day					0.005	0.001
Instrument Maintenance	2/Year					<0.001	0.020
Inert Gas purging for plant start up	6/Year						0.004
Cracking furnace decoking	2/Year	0.22		0.05	0.83		
Loading/Unloading Operations	5-18/day					0.024	

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IX. Insignificant Activities

ID No.:	Description	Citation
2U-ISA1	Fuel oil tank for EMG river water pump	Insignificant Activity per LAC 33:III.501.B.5.A.3.
2U-ISA2	Fuel oil tank for firefighting water pump – A	LAC 33:III.501.B.5.A.3
2U-ISA3	Fuel oil tank for firefighting water pump – B	LAC 33:III.501.B.5.A.3
2U-ISA4	Fuel oil tank for firefighting water pump – C	LAC 33:III.501.B.5.A.3
2U-ISA5	Fuel oil tank for firefighting water pump – D	LAC 33:III.501.B.5.A.3
2U-ISA6	Fuel oil tank for firefighting water pump – E	LAC 33:III.501.B.5.A.3
2U-ISA7	Fuel oil tank for firefighting water pump – F	LAC 33:III.501.B.5.A.3
2U-ISA8	Fuel oil tank of Emergency generator	LAC 33:III.501.B.5.A.3
2A-ISA3	Fuel oil tank of Emergency generator	LAC 33:III.501.B.5.A.3
2A-ISA4	Sulfuric Acid Tank	LAC 33:III.501.B.5.D
2A-ISA6	Laboratory Vent	LAC 33:III.501.B.5.A.6
2M-ISA1	Fuel oil tank for EMG neutralizer CW pump -A	LAC 33:III.501.B.5.A.3
2M-ISA2	Fuel oil tank for EMG neutralizer CW pump -B	LAC 33:III.501.B.5.A.3
2M-ISA3	Fuel oil tank for EMG neutralizer CW pump -C	LAC 33:III.501.B.5.A.3
2M-ISA4	Fuel oil tank for EMG generator	LAC 33:III.501.B.5.A.3
2M-ISA5	Sulfuric Acid Tank	LAC 33:III.501.B.5.D
2M-ISA6	Hydrochloric Acid Storage Tank	LAC 33:III.501.B.5.D
2M-ISA7	Laboratory Vent	LAC 33:III.501.B.5.A.6
2M-ISA8	Process Stream Analyzers – 1	LAC 33:III.501.B.5.A.6
2M-ISA9	Process Stream Analyzers – 2	LAC 33:III.501.B.5.A.6
2M-ISA10	Ammonia Seal Tank	LAC 33:III.501.B.5.D

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Shintech Louisiana LLC – Shintech Plaquemine Plant 2

Agency Interest No.: 126578

Shintech Louisiana LLC

Plaquemine, Iberville Parish, Louisiana

I.	Table 1. Applicable Louisiana and Federal Air Quality Requirements																				
	LAC 33:III. Chapter																				
ID No.:	Description	5	9	11	13	15	2103	2107	2108	2113	2115	2121	2122	2147	2153	22	29*	51*	56	59*	
UNF0001	Entire Facility		1	1	1	2				1						1	1	1	1	1	1
EQT0112	2U-1 - Boiler A			1	1	2										2					
EQT0113	2U-2 - Boiler B			1	1	2										2					
EQT0114	2U-3 - 35% HCl Tank Absorber																	1			
FUG0006	2U-4 - Fugitive Emission (Bio)													3				1			
EQT0115	2U-5 - Ship Dock Emergency Pump			1	1	2										2					
EQT0116	2U-6 - Utility Emergency Generator (Bio)			1	1	2										2					
EQT0117	2C-1 - No.2 Chlorine Scrubber										3							1			
EQT0118	2C-2 - HCl Scrubber										3							1			
EQT0119	2C-3 - HCl Storage Tank Absorber																	1			
EQT0120	2C-4 - C/A Cooling Tower					1												1			
FUG0007	2C-5 - C/A Fugitive Emissions											3						1			
EQT0121	2C-6 - C/A Emergency Generators			1	1	2										2					
EQT0122	2M-1 - Cracking Furnace A			1	1	2										2					
EQT0123	2M-2 - Cracking Furnace B			1	1	2										2					
EQT0124	2M-3 - Cracking Furnace C			1	1	2										2					
EQT0125	2M-4 - Cracking Furnace D			1	1	2										2					
EQT0126	2M-5 – Gas Thermal Oxidizer A			1	1	2	1				1					2		1			

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Shintech Louisiana LLC - Shintech Plaquemine Plant 2

Agency Interest No.: 126578

Shintech Louisiana LLC

Plaquemine, Iberville Parish, Louisiana

I.	Table 1. Applicable Louisiana and Federal Air Quality Requirements																			
	LAC 33:III.Chapter																			
ID No.:	Description	5	9	11	13	15	2103	2107	2108	2113	2115	2121	2122	2147	2153	22	29*	51*	56	59*
EQT0127	2M-6 - Gas Thermal Oxidizer B		1	1	2	1					1					2		1		
EQT0128	2M-7 - VCM Cooling Tower			1														1		
FUG0008	2M-8 - VCM Unit Fugitive Emissions									1								1		
FUG0009	2M-9 - VCM Unit Fugitives Emissions 2																	1		
FUG0010	2M-10 - VCM Unit Fugitives Emissions 3																	1		
EQT0129	2M-11 - VCM Emergency Generators		1	1	2											2				
RLP0010	2MCL-301 - Cracking Furnace Initial Quench Process Vents										1			3				1		
RLP0011	2MCL-302 - Cracking Furnace Initial Quench Process Vents										1			3				1		
RLP0012	2MCL-303 - Cracking Furnace Initial Quench Process Vents										1			3				1		
RLP0013	2MCL-304 - Cracking Furnace Initial Quench Process Vents										1			3				1		
RLP0014	2MRE-203 - OHC Reactor Initial Quench Process Vents										1			3				1		
RLP0015	2MRE-204 - OHC Reactor Initial Quench Process Vents										1			3				1		

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Shintech Louisiana LLC – Shintech Plaquemine Plant 2

Agency Interest No.: 126578

Shintech Louisiana LLC

Plaquemine, Iberville Parish, Louisiana

I.	Table 1. Applicable Louisiana and Federal Air Quality Requirements																				
	LAC 33:III. Chapter																				
ID No.:	Description	5	9	11	13	15	2103	2107	2108	2113	2115	2121	2122	2147	2153	22	29*	51*	56	59*	
RLP0016	2MRE-205 - OHC Reactor Initial Quench Process Vents										1			3					1		
RLP0036	2MCL-204 - OHC Train CO2 Stripper Process Vents										1			3					1		
RLP0037	2MCL-205 - OHC Train CO2 Stripper Process Vents										1			3					1		
RLP0017	2MRE-101 DC Reactor Process Vents										1			3					1		
RLP0018	2MRE-102 DC Reactor Process Vents										1			3					1		
RLP0038	2MRE-103 DC Reactor Process Vents										1			3					1		
RLP0019	2MTK-105 DC Product Separator Vent										1			3					1		
RLP0039	2MCL-221 - Process Wastewater Stripper Vents										1				3				1		
RLP0040	2MCL-222 - Process Wastewater Stripper Vents										1				3				1		
RLP0032	2MCL-631 - Process Area Storm Water Stripper Vents										1								1		
RLP0033	2MCL-632 - Process Area Storm Water Stripper Vents										1								1		

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Shintech Louisiana LLC – Shintech Plaquemine Plant 2

Agency Interest No.: 126578

Shintech Louisiana LLC

Plaquemine, Iberville Parish, Louisiana

I. Table 1. Applicable Louisiana and Federal Air Quality Requirements		LAC 33:III. Chapter																			
		5*	9	11	13	15	2103	2107	2108	2113	2115	2121	2122	2147	2153	22	29*	51*	56	59*	
ID No.:	Description																				
RLP0026	2MCL-401 - EDC Purification Process Vents										1			3						1	
RLP0027	2MCL-402 - EDC Purification Process Vents										1			3						1	
RLP0028	2MCL-403 - EDC Purification Process Vents										1			3						1	
RLP0029	2MCL-404 - EDC Purification Process Vents										1			3						1	
RLP0030	2MCL-405 - EDC Purification Process Vents										1			3						1	
EQT0162	2VCLD-RC - VCM Railcar Loading Racks								1											1	
EQT0163	2VCLD-SD - VCM Marine Loading Racks								1											1	
EQT0164	2EDLD-SD - EDC Marine Loading Racks								1											1	
EQT0134	2MTK-491 - EDC Intermediate Storage Tanks							1									3				1
EQT0135	2MTK-492 - EDC Intermediate Storage Tanks							1									3				1
EQT0136	2MTK-493 - EDC Intermediate Storage Tanks							1									3				1

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Shintech Louisiana LLC – Shintech Plaquemine Plant 2

Agency Interest No.: 126578

Shintech Louisiana LLC

Plaquemine, Iberville Parish, Louisiana

I. Table 1. Applicable Louisiana and Federal Air Quality Requirements		LAC 33:III. Chapter																			
		5	9	11	13	15	2103	2107	2108	2113	2115	2121	2122	2147	2153	22	29*	51*	56	59*	
ID No.:	Description																				
EQT0137	2MTK-494 - EDC Intermediate Storage Tanks					1					3										1
EQT0138	2MTK-495 - EDC Intermediate Storage Tanks					1					3										1
EQT0139	2MTK-496 - By Product Storage					1					3										1
EQT0140	2MTK-499A - No.1 By-Product Tank					1					3										1
EQT0141	2MTK-499B - No.2 By-Product Tank					1					3										1
EQT0166	2MTK-501 - Feed Tank					1					3										1
EQT0142	2MTK-719A - No. 1 Wastewater Tank					3					3										1
EQT0143	2MTK-719B - No. 2 Wastewater Tank					3					3										1
EQT0146	2MDCW-1 - DC Wastewater Streams																				3
EQT0147	2MDCW-2 - DC Wastewater Streams																				3
EQT0148	2MOHCW-1 - OHC Wastewater Streams																				3
EQT0149	2MOHCW-2 - OHC Wastewater Streams																				3
EQT0150	2MOHCW-3 - OHC Wastewater Streams																				3
EQT0151	2MOHCW-4 - OHC Wastewater Streams																				3
EQT0152	2MEP-1 - EDC Purification Wastewater Stream																				3

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Shintech Louisiana LLC – Shintech Plaquemine Plant 2

Agency Interest No.: 126578

Shintech Louisiana LLC

Plaquemine, Iberville Parish, Louisiana

I. Table 1. Applicable Louisiana and Federal Air Quality Requirements		LAC 33:III. Chapter																			
		5	9	11	13	15	2103	2107	2108	2113	2115	2121	2122	2147	2153	22	29*	51*	56	59*	
ID No.:	Description																				
EQT0157	2MGTO-1 Gas Thermal Oxidizer A and Scrubber Bottoms Wastewater Stream													3						1	
EQT0158	2MGTO-2 Gas Thermal Oxidizer A and Scrubber Bottoms Wastewater Stream													3						1	
GRP0001	2M-CAP Gas Thermal Oxidizer Cap																				

* The regulations indicated above are State Only regulations.

▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

KEY TO MATRIX

- 1 - The regulations have applicable requirements that apply to this particular emission source.
- The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Shintech Louisiana LLC – Shintech Plaquemine Plant 2

Agency Interest No.: 126578

Shintech Louisiana LLC

Plaquemine, Iberville Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS					40 CFR 61					40 CFR 63 NESHAP					40 CFR						
		A	Db	Dc	Kb	VV	NNN	RRR	A	F	V	FF	A	F	G	H	Q	III	Q	III	52	64	68
UNF0001	Entire Facility	1						1	1		1	1					3				1	3	1
EQT0112	2U-1 - Boiler A	1																			1		
EQT0113	2U-2 - Boiler B	1																			1		
EQT0114	2U-3 - 35% HCl Tank Absorber																						
FUG0006	2U-4 - Fugitive Emission (Bio)							3			3												
EQT0115	2U-5 - Ship Dock Emergency Pump																						
EQT0116	2U-6 - Utility Emergency Generator (Bio)																						
EQT0117	2C-1 - No.2 Chlorine Scrubber							3	3														
EQT0118	2C-2 - HCl Scrubber							3	3														
EQT0119	2C-3 - HCl Storage Tank Absorber																						
EQT0120	2C-4 - C/A Cooling Tower																						
FUG0007	2C-5 - C/A Fugitive Emissions																						
EQT0121	2C-6 - C/A Emergency Generators																						
EQT0122	2M-1 - Cracking Furnace A																						
EQT0123	2M-2 - Cracking Furnace B																						
EQT0124	2M-3 - Cracking Furnace C																						
EQT0125	2M-4 - Cracking Furnace D																						
EQT0126	2M-5 - Gas Thermal Oxidizer A																						

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Shintech Louisiana LLC – Shintech Plaquemine Plant 2

Agency Interest No.: 126578

Shintech Louisiana LLC

Plaquemine, Iberville Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements		40 CFR 60 NSPS										40 CFR 63 NESHAP							40 CFR								
		A	D	b	K	V	V	N	N	N	N	R	R	R	A	F	A	F	A	F	H	Q	III	52	64	68	
ID No.:	Description																										
EQT0127	2M-6.- Gas Thermal Oxidizer B		1															1	1					1			
EQT0128	2M-7 - VCM Cooling Tower																		1			3			1		
FUG0008	2M-8 - VCM Unit Fugitive Emissions					3													1		1						
FUG0009	2M-9 - VCM Unit Fugitives Emissions 2					3													1		1						
FUG0010	2M-10 - VCM Unit Fugitives Emissions 3					3													1		1						
EQT0129	2M-11 - VCM Emergency Generators																										
RLP0010	2MCL-301 - Cracking Furnace Initial Quench Process Vents									2									1								
RLP0011	2MCL-302 - Cracking Furnace Initial Quench Process Vents									2									1								
RLP0012	2MCL-303 - Cracking Furnace Initial Quench Process Vents									2									1								
RLP0013	2MCL-304 - Cracking Furnace Initial Quench Process Vents									2									1								
RLP0014	2MRE-203 - OHC Reactor Initial Quench Process Vents									1									1								
RLP0015	2MRE-204 - OHC Reactor Initial Quench Process Vents									1									1								
RLP0016	2MRE-205 - OHC Reactor Initial Quench Process Vents									1									1								

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Shintech Louisiana LLC – Shintech Plaquemine Plant 2

Agency Interest No.: 126578

Shintech Louisiana LLC

Plaquemine, Iberville Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements		40 CFR 60 NSPS										40 CFR 61			40 CFR 63 NESHAP						40 CFR														
		A	D	b	D	c	K	b	V	V	N	N	N	R	R	R	A	F	V	FF	A	F	G	H	Q	III	52	64	68						
ID No.:	Description																																		
RLP0036	2MCL-204 - OHC Train CO2 Stripper Process Vents													1							1		1												
RLP0037	2MCL-205 - OHC Train CO2 Stripper Process Vents													1							1		1												
RLP0017	2MRE-101 DC Reactor Process Vents													1							3		1												
RLP0018	2MRE-102 DC Reactor Process Vents													1							3		1												
RLP0038	2MRE-103 DC Reactor Process Vents													1							3		1												
RLP0019	2MTK-105 DC Product Separator Vent												1								3		1												
RLP0039	2MCL-221 - Process Wastewater Stripper Vents																				1		1												
RLP0040	2MCL-222 - Process Wastewater Stripper Vents																				1		1												
RLP0032	2MCL-631 - Process Area Storm Water Stripper Vents																						1												
RLP0033	2MCL-632 - Process Area Storm Water Stripper Vents																						1												
RLP0026	2MCL-401 - EDC Purification Process Vents													1								1		1											
RLP0027	2MCL-402 - EDC Purification Process Vents												1									1		1											

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Shintech Louisiana LLC – Shintech Plaquemine Plant 2

Agency Interest No.: 126578

Shintech Louisiana LLC

Plaquemine, Iberville Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements		40 CFR 60 NSPS				40 CFR 61			40 CFR 63 NESHAP				40 CFR											
		A	D	b	Dc	K	b	V	V	N	N	R	R	R	A	F	G	H	Q	III	52	64	68	
ID No.:	Description																							
RLP0028	2MCL-403 - EDC Purification Process Vents						1								1	1								
RLP0029	2MCL-404 - EDC Purification Process Vents						1								1	1								
RLP0030	2MCL-405 - EDC Purification Process Vents						1								1	1								
EQT0162	2VCLD-RC - VCM Railcar Loading Racks														3									
EQT0163	2VCLD-SD - VCM Marine Loading Racks														3									
EQT0164	2EDLD-SD - EDC Marine Loading Racks														3									
EQT0134	2MTK-491 - EDC Intermediate Storage Tanks									1														
EQT0135	2MTK-492 - EDC Intermediate Storage Tanks									1														
EQT0136	2MTK-493 - EDC Intermediate Storage Tanks									1														
EQT0137	2MTK-494 - EDC Intermediate Storage Tanks									1														

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Shintech Louisiana LLC – Shintech Plaquemine Plant 2

Agency Interest No.: 126578

Shintech Louisiana LLC

Plaquemine, Iberville Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements		40 CFR 60 NSPS											40 CFR 63 NESHAP				40 CFR 68				
		A	Db	Dc	Kb	Vv	NNN	RRR	A	F	V	FF	A	F	G	H	Q	III	52	64	68
ID No.:	Description																				
EQT0138	2MTK-495 - EDC Intermediate Storage Tanks				1																
EQT0139	2MTK-496 - By Product Storage				1						1										
EQT0140	2MTK-499A - No.1 By-Product Tank				1						1										
EQT0141	2MTK-499B - No.2 By-Product Tank				1						1										
EQT0166	2MTK-501 - Feed Tank				1						1										
EQT0142	2MTK-719A - No. 1 Wastewater Tank				2																
EQT0143	2MTK-719B - No. 2 Wastewater Tank				2																
EQT0146	2MDCW-1 - DC Wastewater Streams										3										
EQT0147	2MDCW-2 - DC Wastewater Streams										3										
EQT0148	2MOHCW-1 - OHC Wastewater Streams										1										
EQT0149	2MOHCW-2 - OHC Wastewater Streams										1										
EQT0150	2MOHCW-3 - OHC Wastewater Streams										1										
EQT0151	2MOHCW-4 - OHC Wastewater Streams										1										
EQT0152	2MEP-1 - EDC Purification Wastewater Stream										1										

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Shintech Louisiana LLC - Shintech Plaquemine Plant 2

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Shintech Louisiana LLC

Plaquemine, Iberville Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS				40 CFR 61				40 CFR 63 NESHAP				40 CFR														
		A	D	K	b	V	V	N	N	R	R	R	A	F	V	FF	A	F	G	H	Q	III	IV	52	64	68		
EQT0157	2MGTO-1 Gas Thermal Oxidizer A and Scrubber Bottoms Wastewater Stream																		3	3								
EQT0158	2MGTO-2 Gas Thermal Oxidizer A and Scrubber Bottoms Wastewater Stream																		3	3								
GRP0001	2M-CAP Gas Thermal Oxidizer Cap																											1

KEY TO MATRIX

- 1 - The regulations have applicable requirements that apply to this particular emission source.
- The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank -- The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Shintech Louisiana LLC – Shintech Plaquemine Plant 2

Agency Interest No.: 126578

Shintech Louisiana LLC

Plaquemine, Iberville Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
UNF001 – Entire Facility	Emission Standards for Sulfur Dioxide (LAC 33:III.1503.C)	EXEMPT – Sulfur Dioxide emissions less than 250 tons per year.
EQT0112 & EQT0113 – 2U-1,2: Boilers A & B	40 CFR 63 Subpart IIIII – National Emission Standards for Hazardous Air Pollutants: Mercury Cell Chlor-Alkali Plants (40CFR 63.8182(a)) Emission Standards for Sulfur Dioxide (LAC 33:III.1503.C) Control of Nitrogen Oxides (LAC 33:III.2201.C.15)	DOES NOT APPLY – Facility is not a mercury cell chlor-alkali plant EXEMPT – Sulfur Dioxide emissions less than 250 tons per year. EXEMPT – Proposed State-Only limit is more stringent than the NOx emission limit for industrial boilers
FUG0006 – 2U-4: Fugitive Emissions (Bio)	Limiting VOC Emissions from Industrial Wastewater (LAC 33:III.2153) NESHAP Subpart F – National Emission Standard for Vinyl Chloride (40 CFR 61.65(b)(9)) NESHAP Subpart FF – National Emission Standard for Benzene Waste operations (40 CFR 61.340))	DOES NOT APPLY – Biological treatment system does not receive any wastewaters meeting the definition of Affected VOC Wastewater Stream as defined in LAC 33:III.2153.A. DOES NOT APPLY – Biological wastewater treatment system does not receive any untreated in process wastewater from a unit subject to the Vinyl NESHAP. DOES NOT APPLY – Compliance with SOCMII HON Group 1 and Group 2 wastewater requirements supersedes NESHAP Subpart FF requirements.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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Plaquemine, Iberville Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source		
ID No:	Requirement	Notes
FUG0006 – 2U-4: Fugitive Emissions (Bio) (Continued)	40 CFR 63 Subpart F – National Emission Standards for Hazardous Air Pollutants from the SOCM (HON) (40 CFR 63.100) 40 CFR 63 Subpart G – National Emission Standards for Hazardous Air Pollutants from the SOCM for Process Vents, Storage Vessels, Transfer Operations and Wastewater (HON) (40 CFR 63.110)	DOES NOT APPLY – Biological treatment system does not receive any Group 1 and/or Group 2 wastewater streams from a HON regulated unit. DOES NOT APPLY – Biological treatment system does not receive and Group 1 and/or Group 2 wastewater streams from a HON regulated unit.
EQT0115 & EQT0116 – 2U-5 & 2U-6: Ship Dock Emergency, Utility Emergency Generator (Bio)	Emission Standards for Sulfur Dioxide (LAC 33:III.1503.C) Continuous Emission Monitoring (Emissions Standards for Sulfur Dioxide) (LAC 33:III.1511) Control of Nitrogen Oxides (LAC 33:III.2201.C) Waste Gas Disposal (LAC 33:III.2115)	EXEMPT – Sulfur Dioxide emissions less than 250 tons per year. DOES NOT APPLY – Continuous monitoring is not required for sources emitting <100 TPY of SO2 EXEMPT – Emergency stationary internal combustion engines
EQT0117 - 2C-1: No.2 Chlorine Scrubber	NSPS Subpart NNN – SOCM Distillation Operations (40 CFR 60.660)	DOES NOT APPLY – Vent Stream is not in VOC service. DOES NOT APPLY – Chlorine Scrubber is located in Chlor-Alkali Plant which is not a SOCM facility.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Shintech Louisiana LLC – Shintech Plaquemine Plant 2

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Plaquemine, Iberville Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT0117 - 2C-1: No.2 Chlorine Scrubber (Continued)	NSPS Subpart RRR – SOCMI Reactor Operations (40 CFR 60.700)	DOES NOT APPLY – Chlorine Scrubber is located in Chlor-Alkali Plant which is not a SOCMI facility.
EQT0118 - 2C-2: HCl Scrubber	Waste Gas Disposal (LAC 33:III.2115) NSPS Subpart NNN – SOCMI Distillation Operations (40 CFR 60.660) NSPS Subpart RRR – SOCMI Reactor Operations (40 CFR 60.700)	DOES NOT APPLY – Vent Stream is not in VOC service. DOES NOT APPLY – Chlorine Scrubber is located in Chlor-Alkali Plant which is not a SOCMI facility. DOES NOT APPLY – Chlorine Scrubber is located in Chlor-Alkali Plant which is not a SOCMI facility.
EQT0120 - 2C-4: C/A Cooling Tower	40 CFR 63 Subpart Q – National Emission Standards for Hazardous Air Pollutants for Industrial Process Cooling Towers (40 CFR 63.400)	DOES NOT APPLY – The facility does not use chromium based water treatment chemicals in its cooling waters.
FUG0007 - 2C-5: C/A Fugitive Emissions	Fugitive Emission Control (LAC 33:III.2121)	DOES NOT APPLY – The C/A Unit is not a SOCMI facility or any other listed facility per LAC 33:III.2121.A
EQT0121 - 2C-6 C/A Emergency Generators	Emission Standards for Sulfur Dioxide (LAC 33:III.1503.C)	EXEMPT – Sulfur Dioxide emissions less than 250 tons per year.

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source		
ID No:	Requirement	Notes
EQT0122, EQT0123, EQT0124, & EQT0125 – 2M- 1,2,3,4; Cracking Furnaces A, B, C, and D (Combustion only)	Continuous Emission Monitoring (Emissions Standards for Sulfur Dioxide) (LAC 33:III.1511)	DOES NOT APPLY – Continuous monitoring is not required for sources emitting <100 TPY of SO ₂
	Control of Nitrogen Oxides (LAC 33:III.2201.C)	EXEMPT – Emergency stationary internal combustion engines
	Emission Standards for Sulfur Dioxide (LAC 33:III.1503.C)	EXEMPT – Sulfur Dioxide emissions less than 250 tons per year.
	Continuous Emission Monitoring (Emissions Standards for Sulfur Dioxide) (LAC 33:III.1511)	DOES NOT APPLY – Continuous monitoring is not required for sources emitting <100 TPY of SO ₂
	Control of Nitrogen Oxides (LAC 33:III.2201.C.15)	EXEMPT – Proposed State-Only limit is more stringent than the NO _x emission limit for industrial boilers
	NSPS Subpart Dc – Standards of Performance for Small Industrial-Commercial Institutional Steam Generating Units (40 CFR 60.40c)	DOES NOT APPLY – Units do not meet the definition of a “Steam Generating Unit” as defined in Subpart Dc.
EQT0126 & EQT0127 – 2M- 5,6: Thermal Oxidizer A & B	Emission Standards for Sulfur Dioxide (LAC 33:III.1503.C)	EXEMPT – Sulfur Dioxide emissions less than 250 tons per year.
	Control of Nitrogen Oxides (LAC 33:III.2201.C.15)	EXEMPT – Thermal Oxidizers are exempt per LAC 33:III.2201.C.7

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source		
ID No:	Requirement	Notes
EQT0128 - 2M-7: VCM Cooling Tower	40 CFR 63 Subpart Q – National Emission Standards for Hazardous Air Pollutants for Industrial Process Cooling Towers (40 CFR 63.400)	DOES NOT APPLY – The facility does not use chromium based water treatment chemicals in its cooling waters.
FUG0008 - 2M-8: VCM Unit Fugitive Emissions	Fugitive Emission Control for Ozone Nonattainment Areas and Specified Parishes (LAC 33:2122)	EXEMPT – Any facility which has in place a fugitive emissions monitoring program which controls to a higher degree than required by this regulation upon submittal of a description of the program to the administrative authority per LAC 33:III.2122.D.5
	NSPS Subpart VV – Equipment Leaks of VOC in the SOCM I Industry (40 CFR 60.480)	DOES NOT APPLY – Compliance with this Subpart is achieved by complying with 40 CFR 63, Subpart H per 40 CFR 63.160(b)(1)
	NESHAP Subpart V – National Emission Standard for Equipment Leaks (40 CFR 61.240)	DOES NOT APPLY – Compliance with this Subpart is achieved by complying with 40 CFR 63, Subpart H per 40 CFR 63.160(b)(2)
	Emission Standards for Sulfur Dioxide (LAC 33:III.1503.C)	EXEMPT – Sulfur Dioxide emissions less than 250 tons per year.
EQT0129 - 2M-11: VCM Emergency Generators	Continuous Emission Monitoring (Emissions Standards for Sulfur Dioxide) (LAC 33:III.1511)	DOES NOT APPLY – Continuous monitoring is not required for sources emitting <100 TPY of SO ₂
	Control of Nitrogen Oxides (LAC 33:III.2201.C)	EXEMPT – Emergency stationary internal combustion engines

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source		
ID No:	Requirement	Notes
RLP0010, 11, 12, & 13 – 2MCL-301, 302, 303, & 304: Cracking Furnace Initial Quench Process Vents	Limiting VOC Emissions from SOCM I Reactor Processes and Distillation Operations (LAC 33:III.2147.A.2.g)	DOES NOT APPLY – Any reactor process or distillation operation subject to the HON is not subject to this subchapter.
RLP0014, 15, & 16 – 2MRE-203,204&205: OHC Reactor Initial Quench Process vents; RLP0036 & 37 – 2MCL-204,205: OCH Train CO2 Stripper Process Vents	NSPS Subpart RRR – SOCM I Reactor Operations (40 CFR 60.700)	EXEMPT – Facility meets the requirements specified in 60.700(c)(5) and 60.705(f).
	Limiting VOC Emissions from SOCM I reactor Processes and Distillation Operations (LAC 33.III.2147.A.2.g)	DOES NOT APPLY – Any reactor process or distillation operation subject to the HON is not subject to this subchapter.

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source		
ID No:	Requirement	Notes
RLP0017,18,38 – 2MRE-101, 102, 103: DC Reactor Process Vents	Limiting VOC Emissions from SOCM I Reactor Processes and Distillation Operations (LAC 33:III.2147.A.2.g)	DOES NOT APPLY – Any reactor process or distillation operation subject to the HON is not subject to this subchapter.
	NESHAP Subpart F – National Emission Standard for Vinyl Chloride (40 CFR 61)	EXEMPT – NESHAP Subpart F does not apply to direct chlorination (DC) reactor processes
RLP0019 – 2MTK-105: DC Product Separator Vent	Limiting VOC Emissions from SOCM I Reactor Processes and Distillation Operations (LAC 33:III.2147.A.2.g)	DOES NOT APPLY – Any reactor process or distillation operation subject to the HON is not subject to this subchapter.
	NESHAP Subpart F – National Emission Standard for Vinyl Chloride (40 CFR 61)	EXEMPT – NESHAP Subpart F does not apply to direct chlorination (DC) reactor processes
RLP0039, 40- 2MCL-221,222: Process Wastewater Stripper vents	Limiting VOC Emissions from Industrial Wastewater (LAC 33:III.2153.G.6)	DOES NOT APPLY – Any component of a wastewater storage component, handling, transfer, or treatment facility subject to the HON is exempt from the provisions of this section
RLP0026, 27, 28, 29, & 30 – 2MCL-401, 402, 403, 404, & 405: EDC Purification Columns vents	Limiting VOC Emissions from SOCM I Reactor Processes and Distillation Operations (LAC 33:III.2147.A.2.g)	DOES NOT APPLY – Any reactor process or distillation operation subject to the HON is not subject to this subchapter.
	NSPS Subpart NNN – SOCM I Distillation Operations (40 CFR 61.62(a))	Exemption applies for NSPS testing, monitoring, recordkeeping, and reporting under HON overlap provisions at 60.110(d)(6)

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source		
ID No:	Requirement	Notes
EQT0162 – 2VCLD-RC: VCM Railcar Loading Racks	40 CFR 63 Subpart F – National Emission Standard for Organic Hazardous Air Pollutants from the SOCMII (40 CFR 63.100(f))	DOES NOT APPLY – Loading racks, loading arms, or loading losses that vapor balance during all loading operations are not subject to the requirements of Subparts A, F, G, and H
	40 CFR 63 Subpart F – National Emission Standard for Organic Hazardous Air Pollutants from the SOCMII (40 CFR 63.100(f))	DOES NOT APPLY – 40 CFR 63 Subparts F and G do not apply to marine loading operations.
EQT0163 – 2VCLD-SD: VCM Marine Loading Racks	40 CFR 63 Subpart Y – National Emission Standard for Marine Tank Vessel Loading Operations (40 CFR 63.560)	EXEMPT – The provisions pertaining to the MACT standards in 63.562(b) do not apply to marine tank vessel loading operations where emissions are reduced by using vapor balancing systems.
	NESHAP Subpart F – National Emission Standard for Vinyl Chloride (40 CFR 61.65(b)(1) and (b)(2))	DOES NOT APPLY – Requirement is to reduce the quantity of the VCM in all parts of each loading line that are to opened to atmosphere to ≤ 0.13 scf. VCM removed from loading lines is to be controlled to ≤ 10 ppmv (3-hr average)
EQT0164 – 2EDLD-SD: EDC Marine Loading Racks	40 CFR 63 Subpart F – National Emission Standard for Organic Hazardous Air Pollutants from the SOCMII (40 CFR 63.100(f))	DOES NOT APPLY – 40 CFR 63 Subparts F and G do not apply to marine loading operations.
	40 CFR 63 Subpart Y – National Emission Standard for Marine Tank Vessel Loading Operations (40 CFR 63.560)	EXEMPT – The provisions pertaining to the MACT standards in 63.562(b) do not apply to marine tank vessel loading operations where emissions are reduced by using vapor balancing systems.

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source		
ID No:	Requirement	Notes
EQT0134, 135, 136, 137, 138 – 2MTK-491, 492, 493, 494, 495: EDC Intermediate Storage tanks	Waste Gas Disposal (LAC 33:III.2115)	DOES NOT APPLY – Storage Tank vents are not subject to LAC 33:III.2115.
EQT0139 – 2MTK-496: By-Product Storage Tank	Waste Gas Disposal (LAC 33:III.2115)	DOES NOT APPLY – Storage Tank vents are not subject to LAC 33:III.2115.
EQT0140, 141 – 2MTK-499 A & B: By-Product Tanks 1 & 2	Waste Gas Disposal (LAC 33:III.2115)	DOES NOT APPLY – Storage Tank vents are not subject to LAC 33:III.2115.
EQT0166 – 2MTK-501: Feed Tank	Waste Gas Disposal (LAC 33:III.2115)	DOES NOT APPLY – Storage Tank vents are not subject to LAC 33:III.2115.
EQT0142, 143 – 2MTK-719 A & B: Wastewater Tanks 1 & 2	Storage of VOC Compounds (LAC 33:III.2103) Waste Gas Disposal (LAC 33:III.2115)	DOES NOT APPLY – Tanks store material having a maximum true vapor pressure < 1.5 psia DOES NOT APPLY – Storage Tank vents are not subject to LAC 33:III.2115.

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ID No:	Requirement	Notes
EQ0146, 147 – 2MDCW-1, 2: DC Wastewater Streams	Limiting VOC Emissions from Industrial Wastewater (LAC 33:III.2153.G.6)	DOES NOT APPLY – Any component of a wastewater storage, handling, transfer, or treatment facility subject to the HON is exempt from the provisions of this section.
EQ0148, 149, 150, & 151 – 2MOHCW- 1,2,3,4: OHC Wastewater Streams	NESHAP Subpart F – National Emission Standard for Vinyl Chloride (40 CFR 61.65(b)(9)(i) & (ii)) Limiting VOC Emissions from Industrial Wastewater (LAC 33:III.2153.G.6)	EXEMPT – NESHAP Subpart F does not apply to direct chlorination (DC) reactor processes DOES NOT APPLY – Any component of a wastewater storage, handling, transfer, or treatment facility subject to the HON is exempt from the provisions of this section.
EQ0152 – 2MEP-1: EDC Purification Wastewater Stream	Limiting VOC Emissions from Industrial Wastewater (LAC 33:III.2153.G.6)	DOES NOT APPLY – Any component of a wastewater storage, handling, transfer, or treatment facility subject to the HON is exempt from the provisions of this section.
EQ0157, 158 – 2MGTO-1,2: Gas Thermal Oxidizer A & B and Scrubber Bottoms Waste water streams	Limiting VOC Emissions from Industrial Wastewater (LAC 33:III.2153.A) NESHAP Subpart F – National Emission Standard for Vinyl Chloride (40CFR 61.65(b)(9)(i) & (ii))	DOES NOT APPLY – Wastewater does not meet the definition of Affected VOC Wastewater. Does Not Apply – Wastewater streams are < 5 ppmw VOHAP.

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XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQ0157, 158 – 2MGT0-1,2: Gas Thermal Oxidizer A & B and Scrubber Bottoms Waste water streams (continued)	<p>40 CFR 63 Subpart F – National Emission Standard for Organic Hazardous Air Pollutants from the SOCFMI (40 CFR 63. 101)</p> <p>40 CFR 63 Subpart G – National Emission Standard for Organic Hazardous Air Pollutants from the SOCFMI for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (40 CFR 63.138(b)(2), 63.139(c)(2), 63.138(d), 63.139(c))</p>	<p>DOES NOT APPLY – Wastewater stream does not meet the definition of Wastewater in Subpart F</p> <p>DOES NOT APPLY - Wastewater stream does not meet the definition of Wastewater in Subpart F</p>

The above table provides explanation for both the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

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- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]

40 CFR PART 70 GENERAL CONDITIONS

- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];
 2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
 3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and
 4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.
[Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
1. the date, place as defined in the permit, and time of sampling or measurements;
 2. the date(s) analyses were performed;
 3. the company or entity that performed the analyses;
 4. the analytical techniques or methods used;
 5. the results of such analyses; and
 6. the operating conditions as existing at the time of sampling or measurement.
- [Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]
- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]

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- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]
- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]
- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
 2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
 3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;
 4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;

40 CFR PART 70 GENERAL CONDITIONS

5. changes in emissions would not qualify as a significant modification; and
 6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]
- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Enforcement Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
 2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
 3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:
 - a. Report by June 30 to cover January through March
 - b. Report by September 30 to cover April through June
 - c. Report by December 31 to cover July through September
 - d. Report by March 31 to cover October through December
 4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]
- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]

40 CFR PART 70 GENERAL CONDITIONS

- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
 2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
 3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
 4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
 5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
 6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]
- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.
- The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]
- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.

- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.

- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated November 14, 2007, along with supplemental information dated February 12, 2008 and February 27, 2008.

- IV. This permit shall become invalid, for the sources not constructed, if:
 - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
 - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.

The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.

This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.

- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.

- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.

LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Enforcement Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Enforcement Division with a written report as specified below.
- A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
 - B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
 - C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
 1. Report by June 30 to cover January through March
 2. Report by September 30 to cover April through June
 3. Report by December 31 to cover July through September
 4. Report by March 31 to cover October through December

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- D. Each report submitted in accordance with this condition shall contain the following information:
1. Description of noncomplying emission(s);
 2. Cause of noncompliance;
 3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
 4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
 5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
- E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.
- XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:
- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
 - B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
 - C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
 - D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.
- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.
- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services in accordance with LAC 33:I.Chapter 19.Facility Name and Ownership/Operator Changes Process.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
1. Generally be less than 5 TPY
 2. Be less than the minimum emission rate (MER)
 3. Be scheduled daily, weekly, monthly, etc., or
 4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.

- XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division
La. Dept. of Environmental Quality
Post Office Box 4302
Baton Rouge, Louisiana 70821-4302

- XIX. For Part 70 sources, certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
Entire Facility															
EQT 0112 2U-1	9.05	10.86	39.64	2.54	3.05	11.13	1.25	1.25	5.48	0.16	0.19	0.68	0.65	0.78	2.85
EQT 0113 2U-2	9.05	10.86	39.64	2.54	3.05	11.13	1.25	1.25	5.48	0.16	0.19	0.68	0.65	0.78	2.85
EQT 0115 2U-5	1.78	3.01	0.06	8.26	13.95	0.27	0.59	0.99	0.02	0.55	0.92	0.02	0.66	1.11	0.02
EQT 0116 2U-6	1.44	3.77	0.05	5.50	16.44	0.21	0.33	0.48	0.01	1.76	8.31	0.06	0.37	0.48	0.01
EQT 0120 2C-4							0.19	0.22	0.81						
EQT 0121 2C-8	2.53	13.83	0.14	11.48	60.34	0.65	0.64	1.76	0.04	2.62	30.51	0.15	0.70	1.77	0.04
EQT 0122 2M-1	4.17	5.00	18.26	0.80	0.96	3.50	0.67	0.80	2.94	0.05	0.06	0.23	0.49	0.58	2.13
EQT 0123 2M-2	4.17	5.00	18.26	0.80	0.96	3.50	0.67	0.80	2.94	0.05	0.06	0.23	0.49	0.58	2.13
EQT 0124 2M-3	4.17	5.00	18.26	0.80	0.96	3.50	0.67	0.80	2.94	0.05	0.06	0.23	0.49	0.58	2.13
EQT 0125 2M-4	4.17	5.00	18.26	0.80	0.96	3.50	0.67	0.80	2.94	0.05	0.06	0.23	0.49	0.58	2.13
EQT 0126 2M-5		6.10			1.40			0.55			0.03			1.10	
EQT 0127 2M-6		6.10			1.40			0.55			0.03			1.10	
EQT 0128 2M-7							0.38	0.46	1.67						
EQT 0129 2M-11	0.98	14.18	0.14	4.48	63.69	0.62	0.29	3.13	0.04	0.61	18.86	0.09	0.32	3.40	0.04
FUG 0006 2U-4													0.26	0.31	1.13
FUG 0008 2M-8													2.50	2.50	10.95
FUG 0009 2M-9													2.85	3.42	0.36
FUG 0010 2M-10													0.33	0.39	0.82
GRP 0005 2M-CAP	6.10		26.74	1.40		6.15	0.55		2.43	0.03		0.12	1.10		4.81

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0112 2U-1	Ammonia	2.00	2.40	8.76
EQT 0113 2U-2	Ammonia	2.00	2.40	8.76
EQT 0114 2U-3	Hydrochloric acid	< 0.001	< 0.001	< 0.001
EQT 0117 2C-1	Chlorine	0.24	0.29	1.05
EQT 0118 2C-2	Chlorine	0.002	0.002	0.008
	Hydrochloric acid	0.006	0.007	0.03
EQT 0119 2C-3	Hydrochloric acid	< 0.001	< 0.001	< 0.001
EQT 0120 2C-4	Chlorine	0.10	0.11	0.41
EQT 0122 2M-1	Ammonia	0.45	0.54	1.97
	Benzene	< 0.001	< 0.001	0.001
	Formaldehyde	0.007	0.008	0.03
	Toluene	< 0.001	< 0.001	0.001
EQT 0123 2M-2	Ammonia	0.45	0.54	1.97
	Benzene	< 0.001	< 0.001	0.001
	Formaldehyde	0.007	0.008	0.03
	Toluene	< 0.001	< 0.001	0.001
EQT 0124 2M-3	Ammonia	0.45	0.54	1.97
	Benzene	< 0.001	< 0.001	0.001
	Formaldehyde	0.007	0.008	0.03
	Toluene	< 0.001	< 0.001	0.001
EQT 0125 2M-4	Ammonia	0.45	0.54	1.97
	Benzene	< 0.001	< 0.001	0.001
	Formaldehyde	0.007	0.008	0.03
	Toluene	< 0.001	< 0.001	0.001
EQT 0126 2M-5	1,1-Dichloroethane		0.01	
	1,2-Dichloroethane		0.13	
	Acetaldehyde		0.002	
	Ammonia		0.79	
	Benzene		0.001	
	Carbon tetrachloride		0.04	
	Chlorine		1.55	
	Chloroethane		0.03	
	Chloroform		0.03	
Chloroprene		0.001		

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0126 2M-5	Hydrochloric acid		1.59	
	Methyl chloride		0.001	
	Vinyl chloride		0.55	
	Vinylidene chloride		0.003	
EQT 0127 2M-6	1,1-Dichloroethane		0.01	
	1,2-Dichloroethane		0.13	
	Acetaldehyde		0.002	
	Ammonia		0.79	
	Benzene		0.001	
	Carbon tetrachloride		0.04	
	Chlorine		1.55	
	Chloroethane		0.03	
	Chloroform		0.03	
	Chloroprene		0.001	
	Hydrochloric acid		1.59	
	Methyl chloride		0.001	
	Vinyl chloride		0.55	
	Vinylidene chloride		0.003	
EQT 0128 2M-7	Chlorine	0.33	0.40	1.45
FUG 0006 2U-4	Methanol	0.06	0.08	0.27
	Vinyl chloride	0.10	0.12	0.45
FUG 0007 2C-5	Chlorine	0.29	0.29	1.28
	Hydrochloric acid	0.19	0.19	0.85
FUG 0008 2M-8	1,1,2,2-Tetrachloroethane	0.001	0.001	0.004
	1,1,2-Trichloroethane	0.03	0.03	0.15
	1,1-Dichloroethane	0.01	0.01	0.03
	1,2-Dichloroethane	1.64	1.64	7.18
	Ammonia	0.07	0.07	0.29
	Carbon tetrachloride	0.03	0.03	0.12
	Chlorine	0.04	0.04	0.18
	Chloroethane	0.01	0.01	0.03
	Chloroform	0.02	0.02	0.08
	Hydrochloric acid	0.25	0.25	1.09
	Vinyl chloride	0.48	0.48	2.12

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
FUG 0009 2M-9	1,2-Dichloroethane	2.30	2.76	0.29
	Vinyl chloride	0.52	0.62	0.07
FUG 0010 2M-10	1,2-Dichloroethane	0.20	0.24	0.50
	Vinyl chloride	0.13	0.16	0.32
GRP 0005 2M-CAP	1,1-Dichloroethane	0.01		0.04
	1,2-Dichloroethane	0.13		0.55
	Acetaldehyde	0.002		0.007
	Ammonia	0.79		3.44
	Benzene	0.001		0.005
	Carbon tetrachloride	0.04		0.19
	Chlorine	1.55		6.77
	Chloroethane	0.03		0.13
	Chloroform	0.03		0.12
	Chloroprene	0.001		0.005
	Hydrochloric acid	1.59		6.96
	Methyl chloride	0.001		0.005
	Vinyl chloride	0.55		2.39
Vinylidene chloride	0.003		0.015	
UNF 0001 Entire Facility	1,1,1,2-Tetrachloroethane			0.004
	1,1,2-Trichloroethane			0.15
	1,1-Dichloroethane			0.07
	1,2-Dichloroethane			8.51
	Acetaldehyde			0.007
	Ammonia			29.14
	Benzene			0.009
	Carbon tetrachloride			0.30
	Chlorine			11.14
	Chloroethane			0.17
	Chloroform			0.20
	Chloroprene			0.005
	Formaldehyde			0.12
	Hydrochloric acid			8.93
Methanol			0.27	
Methyl chloride			0.005	

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
UNF 0001 Entire Facility	Toluene			0.004
	Vinyl chloride			5.34
	Vinylidene chloride			0.02

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

EQT0112 Boiler A

- 1 [40 CFR 60.44b] Nitrogen oxides \leq 0.20 lb/MMBTU heat input (expressed as NO₂), except as provided in 40 CFR 60.44b(k). The nitrogen oxide standards apply at all times, including periods of startup, shutdown, or malfunction. Subpart Db.
- 2 [40 CFR 60.49b(a)] Which Months: All Year Statistical Basis: Thirty-day rolling average
Submit notification: Due as provided by 40 CFR 60.7. Submit a notification of the actual date of initial startup including design heat input capacity of the affected facility, identification of fuels to be combusted, copy of any federally enforceable requirement limiting annual capacity factor, and all other data as specified in 40 CFR 60.49b(a)(1) through (a)(4). Subpart Db. [40 CFR 60.49b(a)]
- 3 [40 CFR 60.49b(d)] Fuel rate recordkeeping by electronic or hard copy daily. Record the amounts of each fuel combusted during each day and calculate the annual capacity factor: individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for the reporting period. Determine the annual capacity factor on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. Subpart Db. [40 CFR 60.49b(d)]
- 4 [40 CFR 60.49b(o)] Maintain all records required under 40 CFR 60.49b for a period of 2 years following the date of such record. Subpart Db. [40 CFR 60.49b(o)]
- 5 [LAC 33:III.1101.B] Opacity \leq 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
- 6 [LAC 33:III.1313.C] Which Months: All Year Statistical Basis: None specified
Total suspended particulate \leq 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
- 7 [LAC 33:III.1513.C] Which Months: All Year Statistical Basis: None specified
Equipment/operational data recordkeeping by electronic or hard copy once initially and annually. Record and retain at the site sufficient data to show annual potential sulfur dioxide emissions.
- 8 [LAC 33:III.504] LAER is good combustion practices, low NOx burners, and selective catalytic reduction to limit NOx emissions to 0.01 lb/MM BTU and VOC emissions to 0.0026 lb/MM BTU.
- 9 [LAC 33:III.509] Comply with all applicable provisions of PSD-LA-731. BACT is low NOx burners, selective catalytic reduction, good combustion and clean burning fuel to limit PM10 emissions to 0.005 lb/MM BTU, NOx emissions to 0.01 lb/MM BTU, and CO emissions to 0.0362 lb/MM BTU.

EQT0113 Boiler B

- 10 [40 CFR 60.44b] Nitrogen oxides \leq 0.20 lb/MMBTU heat input (expressed as NO₂), except as provided in 40 CFR 60.44b(k). The nitrogen oxide standards apply at all times, including periods of startup, shutdown, or malfunction. Subpart Db.
- 11 [40 CFR 60.49b(a)] Which Months: All Year Statistical Basis: Thirty-day rolling average
Submit notification: Due as provided by 40 CFR 60.7. Submit a notification of the actual date of initial startup including design heat input capacity of the affected facility, identification of fuels to be combusted, copy of any federally enforceable requirement limiting annual capacity factor, and all other data as specified in 40 CFR 60.49b(a)(1) through (a)(4). Subpart Db. [40 CFR 60.49b(a)]
- 12 [40 CFR 60.49b(d)] Fuel rate recordkeeping by electronic or hard copy daily. Record the amounts of each fuel combusted during each day and calculate the annual capacity factor: individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for the reporting period. Determine the annual capacity factor on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month. Subpart Db. [40 CFR 60.49b(d)]
- 13 [40 CFR 60.49b(o)] Maintain all records required under 40 CFR 60.49b for a period of 2 years following the date of such record. Subpart Db. [40 CFR 60.49b(o)]

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant
 Activity Number: PER20070007
 Permit Number: 3063-V0
 Air - Title V Regular Permit Initial

EQT0113 Boiler B

- 14 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified
 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified
 Equipment/operational data recordkeeping by electronic or hard copy once initially and annually. Record and retain at the site sufficient data to show annual potential sulfur dioxide emissions.
- 15 [LAC 33:III.1313.C] LAER is good combustion practices, low NOx burners, and selective catalytic reduction to limit NOx emissions to 0.01 lb/MM BTU and VOC emissions to 0.0026 lb/MM BTU.
- 16 [LAC 33:III.1513.C] Comply with all applicable provisions of PSD-LA-731. BACT is low NOx burners, selective catalytic reduction, good combustion and clean burning fuel to limit PM10 emissions to 0.005 lb/MM BTU, NOx emissions to 0.01 lb/MM BTU, and CO emissions to 0.0362 lb/MM BTU.
- 17 [LAC 33:III.504]
- 18 [LAC 33:III.509]

EQT0115 Ship Dock Emergency Pump

- 19 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified
 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified
 Equipment/operational data recordkeeping by electronic or hard copy once initially and annually. Record and retain at the site sufficient data to show annual potential sulfur dioxide emissions.
- 20 [LAC 33:III.1313.C] Comply with all applicable provisions of PSD-LA-731. BACT is good combustion practices to limit PM10 emissions to 0.0022 lb/HP-hr if the Engines < 600 HP and 0.0007 lb/HP-hr if the Engines > 600 HP, and CO emissions to 0.0067 lb/HP-hr if the Engines < 600 HP and 0.0055 lb/HP-hr if the Engines > 600 HP.
- 21 [LAC 33:III.1513.C]
- 22 [LAC 33:III.509]

EQT0116 Utility Emergency Generator

- 23 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified
 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified
 Equipment/operational data recordkeeping by electronic or hard copy once initially and annually. Record and retain at the site sufficient data to show annual potential sulfur dioxide emissions.
- 24 [LAC 33:III.1313.C]
- 25 [LAC 33:III.1513.C]

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

EQI0116 Utility Emergency Generator

26 [LAC 33:III.509]

Comply with all applicable provisions of PSD-LA-731. BACT is good combustion practices to limit PM10 emissions to 0.0022 lb/HP-hr if the Engines < 600 HP and 0.0007 lb/HP-hr if the Engines > 600 HP, and CO emissions to 0.0067 lb/HP-hr if the Engines < 600 HP and 0.0055 lb/HP-hr if the Engines > 600 HP.

EQI0120 C/A Cooling Tower

27 [LAC 33:III.1311.C]

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: Six-minute average

28 [LAC 33:III.509]

Comply with all applicable provisions of PSD-LA-731. BACT is good design, maintenance, and use of mist eliminators to limit PM10 emissions to 0.00008 lb/M gal.

EQI0121 CA Emergency Generator

29 [LAC 33:III.1101.B]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified

30 [LAC 33:III.1313.C]

Total suspended particulate <= 0.6 lb/MMBTU of heat input.

Which Months: All Year Statistical Basis: None specified

31 [LAC 33:III.1513.C]

Equipment/operational data recordkeeping by electronic or hard copy once initially and annually. Record and retain at the site sufficient data to show annual potential sulfur dioxide emissions.

32 [LAC 33:III.509]

Comply with all applicable provisions of PSD-LA-731. BACT is good combustion practices to limit PM10 emissions to 0.0022 lb/HP-hr if the Engines < 600 HP and 0.0007 lb/HP-hr if the Engines > 600 HP, and CO emissions to 0.0067 lb/HP-hr if the Engines < 600 HP and 0.0055 lb/HP-hr if the Engines > 600 HP.

EQI0122 Cracking Furnace A

33 [LAC 33:III.1101.B]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

34 [LAC 33:III.1313.C]

Total suspended particulate <= 0.6 lb/MMBTU of heat input.

Which Months: All Year Statistical Basis: None specified

35 [LAC 33:III.1513.C]

Equipment/operational data recordkeeping by electronic or hard copy once initially and annually. Record and retain at the site sufficient data to show annual potential sulfur dioxide emissions.

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

EQT0122 Cracking Furnace A

- 36 [LAC 33:III.2201.G.2] Perform NOx emissions testing for all point sources that are subject to the emission limitations of LAC 33:III.2201.D or used in one of the alternative plans of LAC 33:III.2201.E, as specified in LAC 33:III.2201.G.2 through G.7. Test results must demonstrate that actual NOx emissions are in compliance with the appropriate limits of LAC 33:III.Chapter 22. Also measure CO, SO2, PM10, and VOC if modifications could cause an increase in emissions of any of these compounds.
- 37 [LAC 33:III.2201.J.1] Modify and/or install and bring into normal operation NOx control equipment and/or NOx monitoring systems in accordance with LAC 33:III.Chapter 22 as expeditiously as possible, but by no later than May 1, 2005, except as provided in LAC 33:III.2202.
- 38 [LAC 33:III.2201.J.2] Complete all initial compliance testing, specified by LAC 33:III.2201.G, for equipment modified with NOx reduction controls or a NOx monitoring system to meet the provisions of LAC 33:III.Chapter 22 within 60 days of achieving normal production rate or after the end of the shake down period, but in no event later than 180 days after initial start-up, except as provided in LAC 33:III.2202.
- 39 [LAC 33:III.2201.J.2] Complete required testing to demonstrate the performance of existing, unmodified equipment in a timely manner, but by no later than November 1, 2005, except as provided in LAC 33:III.2202.
- 40 [LAC 33:III.504] LAER is low NOx burners, selective catalytic reduction, and good combustion practices to limit NOx emissions to 0.009 lb/MM BTU and VOC emissions to 0.005 lb/MM BTU.
- 41 [LAC 33:III.509] Comply with all applicable provisions of PSD-LA-731. BACT is low NOx burners, selective catalytic reduction, clean burning fuels, and good combustion practices to limit PM10 emissions to 0.007 lb/MM BTU, NOx emissions to 0.009 lb/MM BTU, and CO emissions to 0.046 lb/MM BTU.

EQT0123 Cracking Furnace B

- 42 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
- 43 [LAC 33:III.1113.C] Which Months: All Year Statistical Basis: None specified
Total suspended particulate <= 0.6 lb/MMBTU of heat input.
- 44 [LAC 33:III.1113.C] Which Months: All Year Statistical Basis: None specified
Equipment/operational data recordkeeping by electronic or hard copy once initially and annually. Record and retain at the site sufficient data to show annual potential sulfur dioxide emissions.
- 45 [LAC 33:III.2201.G.2] Perform NOx emissions testing for all point sources that are subject to the emission limitations of LAC 33:III.2201.D or used in one of the alternative plans of LAC 33:III.2201.E, as specified in LAC 33:III.2201.G.2 through G.7. Test results must demonstrate that actual NOx emissions are in compliance with the appropriate limits of LAC 33:III.Chapter 22. Also measure CO, SO2, PM10, and VOC if modifications could cause an increase in emissions of any of these compounds.
- 46 [LAC 33:III.2201.J.1] Modify and/or install and bring into normal operation NOx control equipment and/or NOx monitoring systems in accordance with LAC 33:III.Chapter 22 as expeditiously as possible, but by no later than May 1, 2005, except as provided in LAC 33:III.2202.
- 47 [LAC 33:III.2201.J.2] Complete all initial compliance testing, specified by LAC 33:III.2201.G, for equipment modified with NOx reduction controls or a NOx monitoring system to meet the provisions of LAC 33:III.Chapter 22 within 60 days of achieving normal production rate or after the end of the shake down period, but in no event later than 180 days after initial start-up, except as provided in LAC 33:III.2202.
- 48 [LAC 33:III.2201.J.2] Complete required testing to demonstrate the performance of existing, unmodified equipment in a timely manner, but by no later than November 1, 2005, except as provided in LAC 33:III.2202.

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

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Air - Title V Regular Permit Initial

EQT0123 Cracking Furnace B

- 49 [LAC 33:III.504] LAER is low NOx burners, selective catalytic reduction, and good combustion practices to limit NOx emissions to 0.009 lb/MM BTU and VOC emissions to 0.005 lb/MM BTU.
- 50 [LAC 33:III.509] Comply with all applicable provisions of PSD-LA-731. BACT is low NOx burners, selective catalytic reduction, clean burning fuels, and good combustion practices to limit PM10 emissions to 0.007 lb/MM BTU, NOx emissions to 0.009 lb/MM BTU, and CO emissions to 0.046 lb/MM BTU.

EQT0124 Cracking Furnace C

- 51 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
- 52 [LAC 33:III.1313.C] Which Months: All Year Statistical Basis: None specified
Total suspended particulate <= 0.6 lb/MMBTU of heat input.
- 53 [LAC 33:III.1513.C] Which Months: All Year Statistical Basis: None specified
Equipment/operational data recordkeeping by electronic or hard copy once initially and annually. Record and retain at the site sufficient data to show annual potential sulfur dioxide emissions.
- 54 [LAC 33:III.2201.G.2] Perform NOx emissions testing for all point sources that are subject to the emission limitations of LAC 33:III.2201.D or used in one of the alternative plans of LAC 33:III.2201.E, as specified in LAC 33:III.2201.G.2 through G.7. Test results must demonstrate that actual NOx emissions are in compliance with the appropriate limits of LAC 33:III.Chapter 22. Also measure CO, SO2, PM10, and VOC if modifications could cause an increase in emissions of any of these compounds.
- 55 [LAC 33:III.2201.J.1] Modify and/or install and bring into normal operation NOx control equipment and/or NOx monitoring systems in accordance with LAC 33:III.Chapter 22 as expeditiously as possible, but by no later than May 1, 2005, except as provided in LAC 33:III.2202.
- 56 [LAC 33:III.2201.J.2] Complete all initial compliance testing, specified by LAC 33:III.2201.C, for equipment modified with NOx reduction controls or a NOx monitoring system to meet the provisions of LAC 33:III.Chapter 22 within 60 days of achieving normal production rate or after the end of the shake down period; but in no event later than 180 days after initial start-up, except as provided in LAC 33:III.2202.
- 57 [LAC 33:III.2201.J.2] Complete required testing to demonstrate the performance of existing, unmodified equipment in a timely manner, but by no later than November 1, 2005, except as provided in LAC 33:III.2202.
- 58 [LAC 33:III.504] LAER is low NOx burners, selective catalytic reduction, and good combustion practices to limit NOx emissions to 0.009 lb/MM BTU and VOC emissions to 0.005 lb/MM BTU.
- 59 [LAC 33:III.509] Comply with all applicable provisions of PSD-LA-731. BACT is low NOx burners, selective catalytic reduction, clean burning fuels, and good combustion practices to limit PM10 emissions to 0.007 lb/MM BTU, NOx emissions to 0.009 lb/MM BTU, and CO emissions to 0.046 lb/MM BTU.

EQT0125 Cracking Furnace D

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

EQ10125 Cracking Furnace D

- 60 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 - 61 [LAC 33:III.1313.C] Which Months: All Year Statistical Basis: None specified Total suspended particulate <= 0.6 lb/MMBTU of heat input.
 - 62 [LAC 33:III.1513.C] Which Months: All Year Statistical Basis: None specified Equipment/operational data recordkeeping by electronic or hard copy once initially and annually. Record and retain at the site sufficient data to show annual potential sulfur dioxide emissions.
 - 63 [LAC 33:III.2201.G.2] Perform NOx emissions testing for all point sources that are subject to the emission limitations of LAC 33:III.2201.D or used in one of the alternative plans of LAC 33:III.2201.E, as specified in LAC 33:III.2201.G.2 through G.7. Test results must demonstrate that actual NOx emissions are in compliance with the appropriate limits of LAC 33:III.Chapter 22. Also measure CO, SO2, PM10, and VOC if modifications could cause an increase in emissions of any of these compounds.
 - 64 [LAC 33:III.2201.J.1] Modify and/or install and bring into normal operation NOx control equipment and/or NOx monitoring systems in accordance with LAC 33:III.Chapter 22 as expeditiously as possible, but by no later than May 1, 2005, except as provided in LAC 33:III.2202.
 - 65 [LAC 33:III.2201.J.2] Complete all initial compliance testing, specified by LAC 33:III.2201.G, for equipment modified with NOx reduction controls or a NOx monitoring system to meet the provisions of LAC 33:III.Chapter 22 within 60 days of achieving normal production rate or after the end of the shake down period, but in no event later than 180 days after initial start-up, except as provided in LAC 33:III.2202.
 - 66 [LAC 33:III.2201.J.2] Complete required testing to demonstrate the performance of existing, unmodified equipment in a timely manner, but by no later than November 1, 2005, except as provided in LAC 33:III.2202.
 - 67 [LAC 33:III.504] LAER is low NOx burners, selective catalytic reduction, and good combustion practices to limit NOx emissions to 0.009 lb/MM BTU and VOC emissions to 0.005 lb/MM BTU.
 - 68 [LAC 33:III.509] Comply with all applicable provisions of PSD-LA-731. BACT is low NOx burners, selective catalytic reduction, clean burning fuels, and good combustion practices to limit PM10 emissions to 0.007 lb/MM BTU, NOx emissions to 0.009 lb/MM BTU, and CO emissions to 0.046 lb/MM BTU.
- EQ10126 Gas Thermal Oxidizer A**
- 69 [40 CFR 60.48c(g)(1)] Fuel rate recordkeeping by electronic or hard copy daily. Keep records of the amount of each fuel combusted during each day. Subpart Dc. [40 CFR 60.48c(g)(1)]
 - 70 [40 CFR 60.48c(g)(3)] Equipment/operational data recordkeeping by electronic or hard copy monthly. Keep records of the total amount of fuel for the unit delivered to the property during each calendar month. Subpart Dc. [40 CFR 60.48c(g)(3)]
 - 71 [40 CFR 61.343(a)(1)(i)(A)] Fixed roof: Ensure that the cover and all openings are designed to operate with no detectable emissions as indicated by an instrument reading less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart Ff. [40 CFR 61.343(a)(1)(i)(A)]
 - 72 [40 CFR 61.343(a)(1)(i)(B)] Fixed roof: Maintain each opening in a closed, sealed position at all times that waste is in the tank except when it is necessary to use the opening for waste sampling or removal, or for equipment inspection, maintenance, or repair, except as specified in 40 CFR 61.343(a)(1)(i)(C). Subpart Ff. [40 CFR 61.343(a)(1)(i)(B)]

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

EQT0126 Gas Thermal Oxidizer A

- 73 [40 CFR 61.343(a)(1)] Install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device. Subpart FF. [40 CFR 61.343(a)(1)]
- 74 [40 CFR 61.343(c)] Fixed-roof: Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that access doors and other openings are closed and gasketed properly. Subpart FF. [40 CFR 61.343(c)]
Which Months: All Year Statistical Basis: None specified
- 75 [40 CFR 61.343(d)] Make first efforts at repair as soon as practicable, but not later than 45 calendar days after a broken seal or gasket or other problem is identified, or when detectable emissions are measured, except as provided in 40 CFR 61.350. Subpart FF. [40 CFR 61.343(d)]
- 76 [40 CFR 61.343(e)] Meet the requirements specified in 40 CFR 63.343(e)(1) through (e)(4). Subpart FF. [40 CFR 61.343(e)]
- 77 [40 CFR 61.355] Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(a) through (i), as applicable. Subpart FF.
- 78 [40 CFR 61.356] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency Maintain records as specified in 40 CFR 61.356(a) through (h), as applicable. Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.
- 79 [40 CFR 61.65(b)(9)(ii)] Inprocess wastewater: Duct any vinyl chloride removed from inprocess wastewater in accordance with 40 CFR 61.65(b)(9)(i) through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm (average for 3-hour period), or equivalent as tested in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(9)(ii)]
- 80 [40 CFR 61.67(a)(2)] Test emissions from the source within 90 days of startup. Conduct test as specified in 40 CFR 61.67(c) through (g). Subpart F. [40 CFR 61.67(a)(2)]
- 81 [40 CFR 61.68] Vinyl chloride monitored by continuous emission monitor (CEM) continuously. Monitor emissions from the sources for which emission limits are prescribed in 40 CFR 61.62(a) and (b), 61.63(a), and 61.64(a)(1), (b), (c) and (d), and for any control system to which reactor emissions are required to be ducted in 40 CFR 61.64(a)(2) or to which fugitive emissions are required to be ducted in 40 CFR 61.65(b)(1)(ii) and (b)(2), (b)(5), (b)(6)(ii) and (b)(9)(ii). Use a device that meets the requirements in 40 CFR 61.68(b). Subpart F.
Which Months: All Year Statistical Basis: None specified
- 82 [40 CFR 63.103(b)(2)] Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 83 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- 84 [40 CFR 63.122(a)(3)] Submit a Notification of Compliance Status as required by 40 CFR 63.152(b). Include the information specified in 40 CFR 63.122(c). Subpart G. [40 CFR 63.122(a)(3)]
- 85 [40 CFR 63.122(a)(4)] Submit Periodic Reports as required by 40 CFR 63.152(d). Include the information specified in 40 CFR 63.122(d), (e), (f), and (g). Subpart G. [40 CFR 63.122(a)(4)]
- 86 [40 CFR 63.123] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep readily accessible records of the information specified in 40 CFR 63.123(a) through (i), as applicable. Keep the records as long as the storage vessel retains Group 1 status and is in operation. Subpart G.

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

EQT0126 Gas Thermal Oxidizer A

- 87 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
Which Months: All Year Statistical Basis: None specified
Total suspended particulate <= 0.6 lb/MMBTU of heat input.
Which Months: All Year Statistical Basis: None specified
- 88 [LAC 33:III.1313.C] Equipment/operational data recordkeeping by electronic or hard copy once initially and annually. Record and retain at the site sufficient data to show annual potential sulfur dioxide emissions.
VOC, Total >= 95 % control efficiency. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
Which Months: All Year Statistical Basis: None specified
- 89 [LAC 33:III.1513.C] Determine compliance with LAC 33:III.2103.E using the methods in LAC 33:III.2103.H.2.a-e, where appropriate.
- 90 [LAC 33:III.2103.E.1] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
- 91 [LAC 33:III.2103.H.2] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
- 92 [LAC 33:III.2103.J] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
- 93 [LAC 33:III.2103.J] VOC, Total <= 0.12 kg/1000 kg of product from the material recovery section.
Which Months: All Year Statistical Basis: None specified
- 94 [LAC 33:III.2115.E] Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate.
- 95 [LAC 33:III.2115.I] Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.
- 96 [LAC 33:III.2115.J.1] Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.
- 97 [LAC 33:III.2115.J.2] Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.
- 98 [LAC 33:III.2115.J] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.
- 99 [LAC 33:III.2115.K] LAER is good combustion practices and clean burning fuels to limit NOx emissions to 0.02 lb/MM BTU and VOC emissions to 0.015 lb/MM BTU.
- 100 [LAC 33:III.504] Comply with all applicable provisions of PSD-LA-731. BACT is good combustion practices and clean burning fuels to limit PM10 emissions to 0.0077 lb/MM BTU, NOx emissions to 0.02 lb/MM BTU, and CO emissions to 0.08 lb/MM BTU.
- 101 [LAC 33:III.509]

EQT0127 Gas Thermal Oxidizer B

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

EQ10127 Gas Thermal Oxidizer B

- 102 [40 CFR 60.48c(g)(1)] Fuel rate recordkeeping by electronic or hard copy daily. Keep records of the amount of each fuel combusted during each day. Subpart Dc. [40 CFR 60.48c(g)(1)]
- 103 [40 CFR 60.48c(g)(3)] Equipment/operational data recordkeeping by electronic or hard copy monthly. Keep records of the total amount of fuel for the unit delivered to the property during each calendar month. Subpart Dc. [40 CFR 60.48c(g)(3)]
- 104 [40 CFR 61.343(a)(1)(i)(A)] Fixed roof: Ensure that the cover and all openings are designed to operate with no detectable emissions as indicated by an instrument reading less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.343(a)(1)(i)(A)]
- 105 [40 CFR 61.343(a)(1)(i)(B)] Fixed roof: Maintain each opening in a closed, sealed position at all times that waste is in the tank except when it is necessary to use the opening for waste sampling or removal, or for equipment inspection, maintenance, or repair, except as specified in 40 CFR 61.343(a)(1)(i)(C). Subpart FF. [40 CFR 61.343(a)(1)(i)(B)]
- 106 [40 CFR 61.343(a)(1)] Install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device. Subpart FF. [40 CFR 61.343(a)(1)]
- 107 [40 CFR 61.343(c)] Fixed-roof: Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that access doors and other openings are closed and gasketed properly. Subpart FF. [40 CFR 61.343(c)]
- 108 [40 CFR 61.343(d)] Which Months: All Year - Statistical Basis: None specified
Make first efforts at repair as soon as practicable, but not later than 45 calendar days after a broken seal or gasket or other problem is identified, or when detectable emissions are measured, except as provided in 40 CFR 61.350. Subpart FF. [40 CFR 61.343(d)]
- 109 [40 CFR 61.343(e)] Meet the requirements specified in 40 CFR 63.343(c)(1) through (c)(4). Subpart FF. [40 CFR 61.343(e)]
- 110 [40 CFR 61.355] Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(a) through (i), as applicable. Subpart FF.
- 111 [40 CFR 61.356] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency Maintain records as specified in 40 CFR 61.356(a) through (n), as applicable. Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.
- 112 [40 CFR 61.65(b)(9)(ii)] Inprocess wastewater: Duct any vinyl chloride removed from inprocess wastewater in accordance with 40 CFR 61.65(b)(9)(i) through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm (average for 3-hour period), or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(9)(ii)]
- 113 [40 CFR 61.67(a)(2)] Test emissions from the source within 90 days of startup. Conduct test as specified in 40 CFR 61.67(c) through (g). Subpart F. [40 CFR 61.67(a)(2)]
- 114 [40 CFR 61.68] Vinyl chloride monitored by continuous emission monitor (CEM) continuously. Monitor emissions from the sources for which emission limits are prescribed in 40 CFR 61.62(a) and (b), 61.63(a), and 61.64(a)(1), (b), (c) and (d), and for any control system to which reactor emissions are required to be ducted in 40 CFR 61.64(a)(2) or to which fugitive emissions are required to be ducted in 40 CFR 61.65(b)(1)(ii) and (b)(2), (b)(5), (b)(6)(ii) and (b)(9)(ii). Use a device that meets the requirements in 40 CFR 61.68(b). Subpart F.
Which Months: All Year - Statistical Basis: None specified
- 115 [40 CFR 63.103(b)(2)] Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 116 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

EQT0127 Gas Thermal Oxidizer B

- 117 [40 CFR 63.122(a)(3)] Submit a Notification of Compliance Status as required by 40 CFR 63.152(b). Include the information specified in 40 CFR 63.122(c). Subpart G. [40 CFR 63.122(a)(3)]
- 118 [40 CFR 63.122(a)(4)] Submit Periodic Reports as required by 40 CFR 63.152(d). Include the information specified in 40 CFR 63.122(d), (e), (f), and (g). Subpart G. [40 CFR 63.122(a)(4)]
- 119 [40 CFR 63.123] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep readily accessible records of the information specified in 40 CFR 63.123(a) through (i), as applicable. Keep the records as long as the storage vessel retains Group 1 status and is in operation. Subpart G.
- 120 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
- 121 [LAC 33:III.1313.C] Which Months: All Year Statistical Basis: None specified
Total suspended particulate <= 0.6 lb/MMBTU of heat input.
- 122 [LAC 33:III.1513.C] Which Months: All Year Statistical Basis: None specified
Equipment/operational data recordkeeping by electronic or hard copy once initially and annually. Record and retain at the site sufficient data to show annual potential sulfur dioxide emissions.
- 123 [LAC 33:III.2103.E.1] VOC, Total >= 95 % control efficiency. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
Which Months: All Year Statistical Basis: None specified
- 124 [LAC 33:III.2103.H.2] Determine compliance with LAC 33:III.2103.E using the methods in LAC 33:III.2103.H.2.a-e, where appropriate.
- 125 [LAC 33:III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
- 126 [LAC 33:III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
- 127 [LAC 33:III.2115.E] VOC, Total <= 0.12 kg/1000 kg of product from the material recovery section.
Which Months: All Year Statistical Basis: None specified
- 128 [LAC 33:III.2115.J] Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate.
- 129 [LAC 33:III.2115.J.1] Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.
- 130 [LAC 33:III.2115.J.2] Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.
- 131 [LAC 33:III.2115.J] Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.
- 132 [LAC 33:III.2115.K] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

EQT0127 Gas Thermal Oxidizer B

- 133 [LAC 33:III.504] LAER is good combustion practices and clean burning fuels to limit NOx emissions to 0.02 lb/MM BTU and VOC emissions to 0.015 lb/MM BTU.
- 134 [LAC 33:III.509] Comply with all applicable provisions of PSD-LA-731. BACT is good combustion practices and clean burning fuels to limit PM10 emissions to 0.0077 lb/MM BTU, NOx emissions to 0.02 lb/MM BTU, and CO emissions to 0.08 lb/MM BTU.

EQT0128 VCM Cooling Tower

- 135 [40 CFR 63.103(e)] Retain information, data and analysis used to determine that the chemical manufacturing process unit does not use as a reactant or manufacture as a product or co-product any organic hazardous air pollutant; OR when requested by DEQ, demonstrate that the chemical manufacturing process unit does not use as a reactant or manufacture as a product or co-product any organic hazardous air pollutant. Subpart F. [40 CFR 63.103(e)]
- 136 [LAC 33:III.509] Comply with all applicable provisions of PSD-LA-731. BACT is good design, maintenance, and use of mist eliminators to limit PM10 emissions to 0.00006 lb/M gal.

EQT0129 VCM Emergency Generators

- 137 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- 138 [LAC 33:III.1305] Which Months: All Year Statistical Basis: None specified Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.
- 139 [LAC 33:III.1313.C] Total suspended particulate <= 0.6 lb/MMBTU of heat input. Which Months: All Year Statistical Basis: None specified
- 140 [LAC 33:III.1513.C] Equipment/operational data recordkeeping by electronic or hard copy once initially and annually. Record and retain at the site sufficient data to show annual potential sulfur dioxide emissions.
- 141 [LAC 33:III.509] Comply with all applicable provisions of PSD-LA-731. BACT is good combustion practices to limit PM10 emissions to 0.0022 lb/HP-hr if the Engines < 600 HP and 0.0007 lb/HP-hr if the Engines > 600 HP, and CO emissions to 0.0067 lb/HP-hr if the Engines < 600 HP and 0.0055 lb/HP-hr if the Engines > 600 HP.

EQT0134 No. 1 EDC Intermediate Storage

- 142 [40 CFR 63.103(b)(2)] Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 143 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]

SPECIFIC REQUIREMENTS

AJ ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

EQT0134 No. 1 EDC Intermediate Storage

- 144 [40 CFR 63.119(a)(1)] Reduce hazardous air pollutants emissions to the atmosphere either by operating and maintaining a fixed roof and internal floating roof, an external floating roof, an external floating roof converted to an internal floating roof, a closed-vent system and control device, routing the emissions to a process or a fuel gas system, or vapor balancing in accordance with the requirements in 40 CFR 63.119(b), (c), (d), (e), (f), or (g) or equivalent as provided in 40 CFR 63.121. Subpart G. [40 CFR 63.119(a)(1)]
- 145 [40 CFR 63.119(a)(2)] Operate and maintain a closed-vent system and control device meeting the requirements specified in 40 CFR 63.119(e), route the emissions to a process or a fuel gas system as specified in 40 CFR 63.119(f), vapor balance as specified in 40 CFR 63.119(g), or equivalent as provided in 40 CFR 63.121. Subpart G. [40 CFR 63.119(a)(2)]
- 146 [40 CFR 63.122(a)(3)] Submit a Notification of Compliance Status as required by 40 CFR 63.152(b). Include the information specified in 40 CFR 63.122(c). Subpart G. [40 CFR 63.122(a)(3)]
- 147 [40 CFR 63.122(a)(4)] Submit Periodic Reports as required by 40 CFR 63.152(d). Include the information specified in 40 CFR 63.122(d), (e), (f), and (g). Subpart G. [40 CFR 63.122(a)(4)]
- 148 [40 CFR 63.123] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep readily accessible records of the information specified in 40 CFR 63.123(a) through (i), as applicable. Keep the records as long as the storage vessel retains Group 1 status and is in operation. Subpart G.
- 149 [LAC 33:III.2103.A] Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.
- 150 [LAC 33:III.2103.E.1] VOC, Total >= 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
Which Months: All Year Statistical Basis: None specified
VOC, Total >= 90 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
Which Months: All Year Statistical Basis: None specified
Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
- 151 [LAC 33:III.2103.E.2] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

EQT0135 No. 2 EDC Intermediate Storage

- 154 [40 CFR 63.103(b)(2)] Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 155 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- 156 [40 CFR 63.119(a)(1)] Reduce hazardous air pollutants emissions to the atmosphere either by operating and maintaining a fixed roof and internal floating roof, an external floating roof, an external floating roof converted to an internal floating roof, a closed-vent system and control device, routing the emissions to a process or a fuel gas system, or vapor balancing in accordance with the requirements in 40 CFR 63.119(b), (c), (d), (e), (f), or (g) or equivalent as provided in 40 CFR 63.121. Subpart G. [40 CFR 63.119(a)(1)]

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

EQ10135 No. 2 EDC Intermediate Storage

- 157 [40 CFR 63.119(a)(2)] Operate and maintain a closed-vent system and control device meeting the requirements specified in 40 CFR 63.119(e), route the emissions to a process or a fuel gas system as specified in 40 CFR 63.119(f), vapor balance as specified in 40 CFR 63.119(g), or equivalent as provided in 40 CFR 63.121. Subpart G. [40 CFR 63.119(a)(2)]
- 158 [40 CFR 63.122(a)(3)] Submit a Notification of Compliance Status as required by 40 CFR 63.152(b). Include the information specified in 40 CFR 63.122(c). Subpart G. [40 CFR 63.122(a)(3)]
- 159 [40 CFR 63.122(a)(4)] Submit Periodic Reports as required by 40 CFR 63.152(d). Include the information specified in 40 CFR 63.122(d), (e), (f), and (g). Subpart G. [40 CFR 63.122(a)(4)]
- 160 [40 CFR 63.123] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep readily accessible records of the information specified in 40 CFR 63.123(a) through (f), as applicable. Keep the records as long as the storage vessel retains Group 1 status and is in operation. Subpart G.
- 161 [LAC 33:III.2103.A] Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.
- 162 [LAC 33:III.2103.E.1] VOC, Total >= 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
- 163 [LAC 33:III.2103.E.2] Which Months: All Year Statistical Basis: None specified
VOC, Total >= 90 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
- 164 [LAC 33:III.2103.H.3] Which Months: All Year Statistical Basis: None specified
Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
- 165 [LAC 33:III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

EQ10136 No. 3 EDC Intermediate Storage

- 166 [40 CFR 63.103(b)(2)] Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 167 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(c) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- 168 [40 CFR 63.119(a)(1)] Reduce hazardous air pollutants emissions to the atmosphere either by operating and maintaining a fixed roof and internal floating roof, an external floating roof, an external floating roof converted to an internal floating roof, a closed-vent system and control device, routing the emissions to a process or a fuel gas system, or vapor balancing in accordance with the requirements in 40 CFR 63.119(b), (c), (d), (e), (f), or (g) or equivalent as provided in 40 CFR 63.121. Subpart G. [40 CFR 63.119(a)(1)]
- 169 [40 CFR 63.119(a)(2)] Operate and maintain a closed-vent system and control device meeting the requirements specified in 40 CFR 63.119(e), route the emissions to a process or a fuel gas system as specified in 40 CFR 63.119(f), vapor balance as specified in 40 CFR 63.119(g), or equivalent as provided in 40 CFR 63.121. Subpart G. [40 CFR 63.119(a)(2)]
- 170 [40 CFR 63.122(a)(3)] Submit a Notification of Compliance Status as required by 40 CFR 63.152(b). Include the information specified in 40 CFR 63.122(c). Subpart G. [40 CFR 63.122(a)(3)]

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

EQT0136 No. 3 EDC Intermediate Storage

- 171 [40 CFR 63.122(a)(4)] Submit Periodic Reports as required by 40 CFR 63.152(d). Include the information specified in 40 CFR 63.122(d), (e), (f), and (g). Subpart G. [40 CFR 63.122(a)(4)]
- 172 [40 CFR 63.123] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep readily accessible records of the information specified in 40 CFR 63.123(a) through (i), as applicable. Keep the records as long as the storage vessel retains Group 1 status and is in operation. Subpart G.
- 173 [LAC 33:III.2103.A] Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.
- 174 [LAC 33:III.2103.E.1] VOC, Total >= 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
Which Months: All Year Statistical Basis: None specified
- 175 [LAC 33:III.2103.E.2] VOC, Total >= 90 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
Which Months: All Year Statistical Basis: None specified
- 176 [LAC 33:III.2103.H.3] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
- 177 [LAC 33:III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

EQT0137 No. 4 EDC Intermediate Storage

- 178 [40 CFR 63.103(b)(2)] Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 179 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- 180 [40 CFR 63.119(a)(1)] Reduce hazardous air pollutants emissions to the atmosphere either by operating and maintaining a fixed roof and internal floating roof, an external floating roof, an external floating roof converted to an internal floating roof, a closed-vent system and control device, routing the emissions to a process or a fuel gas system, or vapor balancing in accordance with the requirements in 40 CFR 63.119(b), (c), (d), (e), (f), or (g) or equivalent as provided in 40 CFR 63.121. Subpart G. [40 CFR 63.119(a)(1)]
- 181 [40 CFR 63.119(a)(2)] Operate and maintain a closed-vent system and control device meeting the requirements specified in 40 CFR 63.119(e), route the emissions to a process or a fuel gas system as specified in 40 CFR 63.119(f), vapor balance as specified in 40 CFR 63.119(g), or equivalent as provided in 40 CFR 63.121. Subpart G. [40 CFR 63.119(a)(2)]
- 182 [40 CFR 63.122(a)(3)] Submit a Notification of Compliance Status as required by 40 CFR 63.152(b). Include the information specified in 40 CFR 63.122(c). Subpart G. [40 CFR 63.122(a)(3)]
- 183 [40 CFR 63.122(a)(4)] Submit Periodic Reports as required by 40 CFR 63.152(d). Include the information specified in 40 CFR 63.122(d), (e), (f), and (g). Subpart G. [40 CFR 63.122(a)(4)]
- 184 [40 CFR 63.123] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep readily accessible records of the information specified in 40 CFR 63.123(a) through (i), as applicable. Keep the records as long as the storage vessel retains Group 1 status and is in operation. Subpart G.

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

EQT0137 No. 4 EDC Intermediate Storage

- 185 [LAC 33:III.2103.A] Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.
- 186 [LAC 33:III.2103.E.1] VOC, Total \geq 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
Which Months: All Year Statistical Basis: None specified
- 187 [LAC 33:III.2103.E.2] VOC, Total \geq 90 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
Which Months: All Year Statistical Basis: None specified
- 188 [LAC 33:III.2103.H.3] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
- 189 [LAC 33:III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

EQT0138 No. 5 EDC Intermediate Storage

- 190 [40 CFR 63.103(b)(2)] Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 191 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- 192 [40 CFR 63.119(a)(1)] Reduce hazardous air pollutants emissions to the atmosphere either by operating and maintaining a fixed roof and internal floating roof, an external floating roof, an external floating roof converted to an internal floating roof, a closed-vent system and control device, routing the emissions to a process or a fuel gas system, or vapor balancing in accordance with the requirements in 40 CFR 63.119(b), (c), (d), (e), (f), or (g) or equivalent as provided in 40 CFR 63.121. Subpart G. [40 CFR 63.119(a)(1)]
- 193 [40 CFR 63.119(a)(2)] Operate and maintain a closed-vent system and control device meeting the requirements specified in 40 CFR 63.119(e), route the emissions to a process or a fuel gas system as specified in 40 CFR 63.119(f), vapor balance as specified in 40 CFR 63.119(g), or equivalent as provided in 40 CFR 63.121. Subpart G. [40 CFR 63.119(a)(2)]
- 194 [40 CFR 63.122(a)(3)] Submit a Notification of Compliance Status as required by 40 CFR 63.152(b). Include the information specified in 40 CFR 63.122(c). Subpart G. [40 CFR 63.122(a)(3)]
- 195 [40 CFR 63.122(a)(4)] Submit Periodic Reports as required by 40 CFR 63.152(d). Include the information specified in 40 CFR 63.122(d), (e), (f), and (g). Subpart G. [40 CFR 63.122(a)(4)]
- 196 [40 CFR 63.123] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep readily accessible records of the information specified in 40 CFR 63.123(a) through (i), as applicable. Keep the records as long as the storage vessel retains Group 1 status and is in operation. Subpart G.
- 197 [LAC 33:III.2103.A] Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

EQT0138 No. 5 EDC Intermediate Storage

- 198 [LAC 33:III.2103.E.1] VOC, Total >= 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
Which Months: All Year Statistical Basis: None specified
- 199 [LAC 33:III.2103.E.2] VOC, Total >= 90 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
Which Months: All Year Statistical Basis: None specified
- 200 [LAC 33:III.2103.H.3] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
- 201 [LAC 33:III.2103.J] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

EQT0139 By-Product Storage

- 202 [40 CFR 61.343(a)(1)(i)(A)] Fixed roof: Ensure that the cover and all openings are designed to operate with no detectable emissions as indicated by an instrument reading less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.343(a)(1)(i)(A)]
- 203 [40 CFR 61.343(a)(1)(i)(B)] Fixed roof: Maintain each opening in a closed, sealed position at all times that waste is in the tank except when it is necessary to use the opening for waste sampling or removal, or for equipment inspection, maintenance, or repair, except as specified in 40 CFR 61.343(a)(1)(i)(C). Subpart FF. [40 CFR 61.343(a)(1)(i)(B)]
- 204 [40 CFR 61.343(a)(1)] Install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device. Subpart FF. [40 CFR 61.343(a)(1)]
- 205 [40 CFR 61.343(c)] Fixed-roof: Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that access doors and other openings are closed and gasketed properly. Subpart FF. [40 CFR 61.343(c)]
Which Months: All Year Statistical Basis: None specified
- 206 [40 CFR 61.343(d)] Make first efforts at repair as soon as practicable, but not later than 45 calendar days after a broken seal or gasket or other problem is identified, or when detectable emissions are measured, except as provided in 40 CFR 61.350. Subpart FF. [40 CFR 61.343(d)]
- 207 [40 CFR 61.356] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency Maintain records as specified in 40 CFR 61.356(a) through (n), as applicable. Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.
- 208 [40 CFR 63.103(b)(2)] Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 209 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- 210 [40 CFR 63.119(a)(1)] Reduce hazardous air pollutants emissions to the atmosphere either by operating and maintaining a fixed roof and internal floating roof, an external floating roof, an external floating roof converted to an internal floating roof, a closed-vent system and control device, routing the emissions to a process or a fuel gas system, or vapor balancing in accordance with the requirements in 40 CFR 63.119(b), (c), (d), (e), (f), or (g) or equivalent as provided in 40 CFR 63.121. Subpart G. [40 CFR 63.119(a)(1)]

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant
 Activity Number: PER20070007
 Permit Number: 3063-V0
 Air - Title V Regular Permit Initial

EQI0139 By-Product Storage

- 211 [40 CFR 63.119(a)(2)] Operate and maintain a closed-vent system and control device meeting the requirements specified in 40 CFR 63.119(e), route the emissions to a process or a fuel gas system as specified in 40 CFR 63.119(f), vapor balance as specified in 40 CFR 63.119(g), or equivalent as provided in 40 CFR 63.121. Subpart G. [40 CFR 63.119(a)(2)]
- 212 [40 CFR 63.122(a)(3)] Submit a Notification of Compliance Status as required by 40 CFR 63.152(b). Include the information specified in 40 CFR 63.122(c). Subpart G. [40 CFR 63.122(a)(3)]
- 213 [40 CFR 63.122(a)(4)] Submit Periodic Reports as required by 40 CFR 63.152(d). Include the information specified in 40 CFR 63.122(d), (e), (f), and (g). Subpart G. [40 CFR 63.122(a)(4)]
- 214 [40 CFR 63.123] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep readily accessible records of the information specified in 40 CFR 63.123(a) through (f), as applicable. Keep the records as long as the storage vessel retains Group I status and is in operation. Subpart G.
- 215 [LAC 33:III.2103.A] Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.
- 216 [LAC 33:III.2103.E.1] VOC, Total >= 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
- 217 [LAC 33:III.2103.E.2] Which Months: All Year Statistical Basis: None specified
 VOC, Total >= 90 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
- 218 [LAC 33:III.2103.H.3] Which Months: All Year Statistical Basis: None specified
 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
- 219 [LAC 33:III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

EQI0140 No. 1 By-Product Tank

- 220 [40 CFR 61.343(a)(1)(i)(A)] Fixed roof: Ensure that the cover and all openings are designed to operate with no detectable emissions as indicated by an instrument reading less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.343(a)(1)(i)(A)]
- 221 [40 CFR 61.343(a)(1)(i)(B)] Fixed roof: Maintain each opening in a closed, sealed position at all times that waste is in the tank except when it is necessary to use the opening for waste sampling or removal, or for equipment inspection, maintenance, or repair, except as specified in 40 CFR 61.343(a)(1)(i)(C). Subpart FF. [40 CFR 61.343(a)(1)(i)(B)]
- 222 [40 CFR 61.343(a)(1)] Install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device. Subpart FF. [40 CFR 61.343(a)(1)]
- 223 [40 CFR 61.343(c)] Fixed-roof: Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that access doors and other openings are closed and gasketed properly. Subpart FF. [40 CFR 61.343(c)]
 Which Months: All Year Statistical Basis: None specified
- 224 [40 CFR 61.343(d)] Make first efforts at repair as soon as practicable, but not later than 45 calendar days after a broken seal or gasket or other problem is identified, or when detectable emissions are measured, except as provided in 40 CFR 61.350. Subpart FF. [40 CFR 61.343(d)]

SPECIFIC REQUIREMENTS

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- 225 [40 CFR 61.356] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency Maintain records as specified in 40 CFR 61.356(a) through (n), as applicable. Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.
- 226 [40 CFR 63.103(b)(2)] Subpart Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 227 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- 228 [40 CFR 63.119(a)(1)] Reduce hazardous air pollutants emissions to the atmosphere either by operating and maintaining a fixed roof and internal floating roof, an external floating roof, an external floating roof converted to an internal floating roof, a closed-vent system and control device, routing the emissions to a process or a fuel gas system, or vapor balancing in accordance with the requirements in 40 CFR 63.119(b), (c), (d), (e), (f), or (g) or equivalent as provided in 40 CFR 63.121. Subpart G. [40 CFR 63.119(a)(1)]
- 229 [40 CFR 63.119(a)(2)] Operate and maintain a closed-vent system and control device meeting the requirements specified in 40 CFR 63.119(e), route the emissions to a process or a fuel gas system as specified in 40 CFR 63.119(f), vapor balance as specified in 40 CFR 63.119(g), or equivalent as provided in 40 CFR 63.121. Subpart G. [40 CFR 63.119(a)(2)]
- 230 [40 CFR 63.122(a)(3)] Submit a Notification of Compliance Status as required by 40 CFR 63.152(b). Include the information specified in 40 CFR 63.122(c). Subpart G. [40 CFR 63.122(a)(3)]
- 231 [40 CFR 63.122(a)(4)] Submit Periodic Reports as required by 40 CFR 63.152(d). Include the information specified in 40 CFR 63.122(d), (e), (f), and (g). Subpart G. [40 CFR 63.122(a)(4)]
- 232 [40 CFR 63.123] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep readily accessible records of the information specified in 40 CFR 63.123(a) through (i), as applicable. Keep the records as long as the storage vessel retains Group 1 status and is in operation. Subpart G.
Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.
VOC, Total >= 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
Which Months: All Year Statistical Basis: None specified
VOC, Total >= 90 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
Which Months: All Year Statistical Basis: None specified
Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
- 233 [LAC 33:III.2103.A]
- 234 [LAC 33:III.2103.E.1]
- 235 [LAC 33:III.2103.E.2]
- 236 [LAC 33:III.2103.H.3]
- 237 [LAC 33:III.2103.I]

EQT0141 No. 2 By-Product Tank

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

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- 238 [40 CFR 61.343(a)(1)(i)(A)] Fixed roof: Ensure that the cover and all openings are designed to operate with no detectable emissions as indicated by an instrument reading less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(b). Subpart FF. [40 CFR 61.343(a)(1)(i)(A)]
- 239 [40 CFR 61.343(a)(1)(i)(B)] Fixed roof: Maintain each opening in a closed, sealed position at all times that waste is in the tank except when it is necessary to use the opening for waste sampling or removal, or for equipment inspection, maintenance, or repair, except as specified in 40 CFR 61.343(a)(1)(i)(C). Subpart FF. [40 CFR 61.343(a)(1)(i)(B)]
- 240 [40 CFR 61.343(a)(1)] Install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device. Subpart FF. [40 CFR 61.343(a)(1)]
- 241 [40 CFR 61.343(c)] Fixed-roof: Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that access doors and other openings are closed and gasketed properly. Subpart FF. [40 CFR 61.343(c)]
Which Months: All Year Statistical Basis: None specified
- 242 [40 CFR 61.343(d)] Make first efforts at repair as soon as practicable, but not later than 45 calendar days after a broken seal or gasket or other problem is identified, or when detectable emissions are measured, except as provided in 40 CFR 61.350. Subpart FF. [40 CFR 61.343(d)]
- 243 [40 CFR 61.356] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency Maintain records as specified in 40 CFR 61.356(a) through (n), as applicable. Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.
- 244 [40 CFR 63.103(b)(2)] Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 245 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- 246 [40 CFR 63.119(a)(1)] Reduce hazardous air pollutants emissions to the atmosphere either by operating and maintaining a fixed roof and internal floating roof, an external floating roof, an external floating roof converted to an internal floating roof, a closed-vent system and control device, routing the emissions to a process or a fuel gas system, or vapor balancing in accordance with the requirements in 40 CFR 63.119(b), (c), (d), (e), (f), or (g) or equivalent as provided in 40 CFR 63.121. Subpart G. [40 CFR 63.119(a)(1)]
- 247 [40 CFR 63.119(a)(2)] Operate and maintain a closed-vent system and control device meeting the requirements specified in 40 CFR 63.119(e), route the emissions to a process or a fuel gas system as specified in 40 CFR 63.119(f), vapor balance as specified in 40 CFR 63.119(g), or equivalent as provided in 40 CFR 63.121. Subpart G. [40 CFR 63.119(a)(2)]
- 248 [40 CFR 63.122(a)(3)] Submit a Notification of Compliance Status as required by 40 CFR 63.152(b). Include the information specified in 40 CFR 63.122(c). Subpart G. [40 CFR 63.122(a)(3)]
- 249 [40 CFR 63.122(a)(4)] Submit Periodic Reports as required by 40 CFR 63.152(d). Include the information specified in 40 CFR 63.122(d), (e), (f), and (g). Subpart G. [40 CFR 63.122(a)(4)]
- 250 [40 CFR 63.123] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep readily accessible records of the information specified in 40 CFR 63.123(a) through (i), as applicable. Keep the records as long as the storage vessel retains Group 1 status and is in operation. Subpart G.
- 251 [LAC 33:III.2.103.A] Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.

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EQT0141 No. 2 By-Product Tank

- 252 [LAC 33:III.2.103.E.1] VOC, Total \geq 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
Which Months: All Year Statistical Basis: None specified
- 253 [LAC 33:III.2.103.E.2] VOC, Total \geq 90 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
Which Months: All Year Statistical Basis: None specified
- 254 [LAC 33:III.2.103.H.3] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2.103.H.3.a-e.
- 255 [LAC 33:III.2.103.I] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2.103.I.1 - 7, as applicable.

EQT0142 No. 1 Wastewater Tank

- 256 [40 CFR 60.116b(b)] Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Keep copies of all records for the life of the source as specified by 40 CFR 60.116b(a). Subpart Kb. [40 CFR 60.116b(b)]
- 257 [40 CFR 60.116b(c)] VOL storage data recordkeeping by electronic or hard copy at the approved frequency. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years.
Subpart Kb. [40 CFR 60.116b(c)]
- 258 [40 CFR 60.116b(f)(2)] Vapor pressure monitored by physical testing once initially and once every six months using the methods specified in 40 CFR 60.116b(f)(2)(i) through (iii). Subpart Kb. [40 CFR 60.116b(f)(2)]
Which Months: All Year Statistical Basis: None specified
- 259 [40 CFR 63.102(a)] Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]
- 260 [40 CFR 63.103(b)(1)] Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]
- 261 [40 CFR 63.103(b)(2)] Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 262 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- 263 [40 CFR 63.103(c)(1)] Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]
- 264 [40 CFR 63.103(c)(2)] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]
- 265 [40 CFR 63.103(c)] Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- 266 [40 CFR 63.104(d)] Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]

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EQT0142 No. 1 Wastewater Tank

- 267 [40 CFR 63.104(f)] Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(1)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
- 268 [40 CFR 63.105(d)] Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
- 269 [40 CFR 63.105] Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.

EQT0143 No. 2 Wastewater Tank

- 270 [40 CFR 60.116b(b)] Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Keep copies of all records for the life of the source as specified by 40 CFR 60.116b(a). Subpart Kb. [40 CFR 60.116b(b)]
- 271 [40 CFR 60.116b(c)] VOL storage data recordkeeping by electronic or hard copy at the approved frequency. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)]
- 272 [40 CFR 60.116b(f)(2)] Vapor pressure monitored by physical testing once initially and once every six months using the methods specified in 40 CFR 60.116b(f)(2)(i) through (iii). Subpart Kb. [40 CFR 60.116b(f)(2)]
- Which Months: All Year Statistical Basis: None specified
- 273 [40 CFR 63.102(a)] Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]
- 274 [40 CFR 63.103(b)(1)] Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]
- 275 [40 CFR 63.103(b)(2)] Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 276 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- 277 [40 CFR 63.103(c)(1)] Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]
- 278 [40 CFR 63.103(c)(2)] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]
- 279 [40 CFR 63.103(c)] Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- 280 [40 CFR 63.104(d)] Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]

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EQI0143 No. 2 Wastewater Tank

- 281 [40 CFR 63.104(f)] Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(1)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
- 282 [40 CFR 63.105(d)] Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
- 283 [40 CFR 63.105] Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.

EQI0146 Wastewater Stream, acidic washing water

- 284 [40 CFR 63.132(b)(1)] Determine whether each wastewater stream requires control for Table 8 compounds by complying with the requirements in either 40 CFR 63.132(b)(1)(i) or (b)(1)(ii), and (b)(1)(iii). Subpart G. [40 CFR 63.132(b)(1)]
 - 285 [40 CFR 63.132(b)(2)] Determine whether each wastewater stream requires control for Table 9 compounds by complying with the requirements in 40 CFR 63.132(b)(2)(i) or (b)(2)(ii), and (b)(2)(iii). Subpart G. [40 CFR 63.132(b)(2)]
 - 286 [40 CFR 63.132(c)] Determine total annual average concentration of Table 9 compounds according to the procedures in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 9 compounds. Redetermine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 stream Subpart G. [40 CFR 63.132(c)]
 - 287 [40 CFR 63.132(d)] Determine annual average concentration for each Table 8 compound according to the procedures specified in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures specified in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 8 compounds. Redetermine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 stream. Subpart G. [40 CFR 63.132(d)]
 - 288 [40 CFR 63.132(f)] Do not discard liquid or solid organic materials with a concentration of greater than 10,000 ppm of Table 9 compounds (as determined by analysis of the stream composition, engineering calculations, or process knowledge, according to the provisions of 40 CFR 63.144(b)) from a chemical manufacturing process unit to water or wastewater, unless the receiving stream is managed and treated as a Group 1 wastewater stream. Subpart G. [40 CFR 63.132(f)]
 - 289 [40 CFR 63.138(g)] Required mass removal (RMR): Organic HAP >= 95 percent as specified in 40 CFR 63.138(g). Subpart G. [40 CFR 63.138(g)]
 - 290 [40 CFR 63.138(j)] Which Months: All Year Statistical Basis: None specified
 - 291 [40 CFR 63.138(k)(2)] Demonstrate compliance with 40 CFR 63.138(b)(1), (c)(1), (e), (f), and/or (g) using the procedures in either 40 CFR 63.138(j)(1) or (j)(2), except as specified in 40 CFR 63.138(j)(3) or (h). Subpart G. [40 CFR 63.138(j)]
 - 292 [40 CFR 63.147] Residuals: Return the wastewater stream residual to the treatment process. Subpart G. [40 CFR 63.138(k)(2)]
 - 293 [40 CFR 63.149(a)] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G.
- Comply with the provisions of 40 CFR 63 Subpart G Table 35 for each item of equipment meeting all the criteria specified in 40 CFR 63.149(b) through (d) and either (e)(1) or (e)(2). Subpart G. [40 CFR 63.149(a)]

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

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EQ10147 Wastewater Stream, caustic washing water

- 294 [40 CFR 63.132(b)(1)] Determine whether each wastewater stream requires control for Table 8 compounds by complying with the requirements in either 40 CFR 63.132(b)(1)(i) or (b)(1)(ii), and (b)(1)(iii). Subpart G. [40 CFR 63.132(b)(1)]
- 295 [40 CFR 63.132(b)(2)] Determine whether each wastewater stream requires control for Table 9 compounds by complying with the requirements in 40 CFR 63.132(b)(2)(i) or (b)(2)(ii), and (b)(2)(iii). Subpart G. [40 CFR 63.132(b)(2)]
- 296 [40 CFR 63.132(c)] Determine total annual average concentration of Table 9 compounds according to the procedures in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 9 compounds. Redetermine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 stream. Subpart G. [40 CFR 63.132(c)]
- 297 [40 CFR 63.132(d)] Determine annual average concentration for each Table 8 compound according to the procedures specified in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures specified in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 8 compounds. Redetermine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 stream. Subpart G. [40 CFR 63.132(d)]
- 298 [40 CFR 63.132(f)] Do not discard liquid or solid organic materials with a concentration of greater than 10,000 ppm of Table 9 compounds (as determined by analysis of the stream composition, engineering calculations, or process knowledge, according to the provisions of 40 CFR 63.144(b)) from a chemical manufacturing process unit to water or wastewater, unless the receiving stream is managed and treated as a Group 1 wastewater stream. Subpart G. [40 CFR 63.132(f)]
- 299 [40 CFR 63.138(g)] Required mass removal (RMR): Organic HAP >= 95 percent as specified in 40 CFR 63.138(g). Subpart G. [40 CFR 63.138(g)]
- 300 [40 CFR 63.138(j)] Which Months: All Year Statistical Basis: None specified
- 301 [40 CFR 63.138(k)(2)] Demonstrate compliance with 40 CFR 63.138(b)(1), (c)(1), (e), (f), and/or (g) using the procedures in either 40 CFR 63.138(j)(1) or (j)(2), except as specified in 40 CFR 63.138(j)(3) or (h). Subpart G. [40 CFR 63.138(j)]
- 302 [40 CFR 63.147] Residuals: Return the wastewater stream residual to the treatment process. Subpart G. [40 CFR 63.138(k)(2)]
- 303 [40 CFR 63.149(a)] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G. [40 CFR 63.149(a)]
- 304 [40 CFR 63.149(a)] Comply with the provisions of 40 CFR 63 Subpart G Table 35 for each item of equipment meeting all the criteria specified in 40 CFR 63.149(b) through (d) and either (e)(1) or (e)(2). Subpart G. [40 CFR 63.149(a)]

EQ10148 Wastewater Stream, byproduct water from No. 1 OHC Train

- 304 [40 CFR 61.65(b)(9)(i)] Inprocess wastewater (vinyl chloride > 10ppm): Vinyl chloride <= 10 ppmw before being mixed with any other inprocess wastewater stream which contains less than 10 ppm vinyl chloride; before being exposed to the atmosphere; before being discharged to a wastewater treatment process; or before being discharged untreated as a wastewater. Subpart F. [40 CFR 61.65(b)(9)(i)]
- 305 [40 CFR 61.65(b)(9)(ii)] Which Months: All Year Statistical Basis: None specified
- 306 [40 CFR 61.65(b)(9)(ii)] Inprocess wastewater: Duct any vinyl chloride removed from inprocess wastewater in accordance with 40 CFR 61.65(b)(9)(i) through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm (average for 3-hour period), or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(9)(ii)]
- 306 [40 CFR 63.132(b)(1)] Determine whether each wastewater stream requires control for Table 8 compounds by complying with the requirements in either 40 CFR 63.132(b)(1)(i) or (b)(1)(ii), and (b)(1)(iii). Subpart G. [40 CFR 63.132(b)(1)]

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EQ10148 Wastewater Stream, byproduct water from No. 1 OHC Train

- 307 [40 CFR 63.132(b)(2)] Determine whether each wastewater stream requires control for Table 9 compounds by complying with the requirements in 40 CFR 63.132(b)(2)(i) and (b)(2)(ii), and (b)(2)(iii). Subpart G. [40 CFR 63.132(b)(2)]
- 308 [40 CFR 63.132(c)] Determine total annual average concentration of Table 9 compounds according to the procedures in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 9 compounds. Redetermine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 stream Subpart G. [40 CFR 63.132(c)]
- 309 [40 CFR 63.132(d)] Determine annual average concentration for each Table 8 compound according to the procedures specified in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures specified in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 8 compounds. Redetermine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 stream. Subpart G. [40 CFR 63.132(d)]
- 310 [40 CFR 63.132(f)] Do not discard liquid or solid organic materials with a concentration of greater than 10,000 ppm of Table 9 compounds (as determined by analysis of the stream composition, engineering calculations, or process knowledge, according to the provisions of 40 CFR 63.144(b)) from a chemical manufacturing process unit to water or wastewater, unless the receiving stream is managed and treated as a Group 1 wastewater stream. Subpart G. [40 CFR 63.132(f)]
- 311 [40 CFR 63.138(g)] Required mass removal (RMR): Organic HAP >= 95 percent as specified in 40 CFR 63.138(g). Subpart G. [40 CFR 63.138(g)]
- 312 [40 CFR 63.138(i)] Which Months: All Year Statistical Basis: None specified
- 313 [40 CFR 63.138(j)] Demonstrate compliance with 40 CFR 63.138(b)(1), (c)(1), (e), (f), and/or (g) using the procedures in either 40 CFR 63.138(j)(1) or (j)(2), except as specified in 40 CFR 63.138(j)(3) or (h). Subpart G. [40 CFR 63.138(j)]
- 314 [40 CFR 63.147] Residuals: Return the wastewater stream residual to the treatment process. Subpart G. [40 CFR 63.138(k)(2)]
- 315 [40 CFR 63.149(a)] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G. [40 CFR 63.149(a)]
- 315 [40 CFR 63.149(a)] Comply with the provisions of 40 CFR 63 Subpart G Table 35 for each item of equipment meeting all the criteria specified in 40 CFR 63.149(b) through (d) and either (e)(1) or (e)(2). Subpart G. [40 CFR 63.149(a)]

EQ10149 Wastewater Stream, byproduct water from No. 2 OHC Train

- 316 [40 CFR 61.65(b)(9)(i)] Inprocess wastewater (vinyl chloride > 10ppm): Vinyl chloride <= 10 ppmw before being mixed with any other inprocess wastewater stream which contains less than 10 ppm vinyl chloride; before being exposed to the atmosphere; before being discharged to a wastewater treatment process; or before being discharged untreated as a wastewater. Subpart F. [40 CFR 61.65(b)(9)(i)]
- 317 [40 CFR 61.65(b)(9)(ii)] Which Months: All Year Statistical Basis: None specified
- 317 [40 CFR 61.65(b)(9)(ii)] Inprocess wastewater: Duct any vinyl chloride removed from inprocess wastewater in accordance with 40 CFR 61.65(b)(9)(i) through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm (average for 3-hour period), or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(9)(ii)]
- 318 [40 CFR 63.132(b)(1)] Determine whether each wastewater stream requires control for Table 8 compounds by complying with the requirements in either 40 CFR 63.132(b)(1)(i) or (b)(1)(ii), and (b)(1)(iii). Subpart G. [40 CFR 63.132(b)(1)]
- 319 [40 CFR 63.132(b)(2)] Determine whether each wastewater stream requires control for Table 9 compounds by complying with the requirements in 40 CFR 63.132(b)(2)(i) or (b)(2)(ii), and (b)(2)(iii). Subpart G. [40 CFR 63.132(b)(2)]

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

EQ10149 Wastewater Stream, byproduct water from No. 2 OHC Train

- 320 [40 CFR 63.132(c)] Determine total annual average concentration of Table 9 compounds according to the procedures in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 9 compounds. Redetermine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 stream. Subpart G. [40 CFR 63.132(c)]
- 321 [40 CFR 63.132(d)] Determine annual average concentration for each Table 8 compound according to the procedures specified in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures specified in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 8 compounds. Redetermine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 stream. Subpart G. [40 CFR 63.132(d)]
- 322 [40 CFR 63.132(f)] Do not discard liquid or solid organic materials with a concentration of greater than 10,000 ppm of Table 9 compounds (as determined by analysis of the stream composition, engineering calculations, or process knowledge, according to the provisions of 40 CFR 63.144(b)) from a chemical manufacturing process unit to water or wastewater, unless the receiving stream is managed and treated as a Group 1 wastewater stream. Subpart G. [40 CFR 63.132(f)]
- 323 [40 CFR 63.138(g)] Required mass removal (RMR): Organic HAP >= 95 percent as specified in 40 CFR 63.138(g). Subpart G. [40 CFR 63.138(g)]
Which Months: All Year Statistical Basis: None specified
- 324 [40 CFR 63.138(j)] Demonstrate compliance with 40 CFR 63.138(b)(1), (c)(1), (e), (f), and/or (g) using the procedures in either 40 CFR 63.138(j)(1) or (j)(2), except as specified in 40 CFR 63.138(j)(3) or (h). Subpart G. [40 CFR 63.138(j)]
- 325 [40 CFR 63.138(k)(2)] Residuals: Return the wastewater stream residual to the treatment process. Subpart G. [40 CFR 63.138(k)(2)]
- 326 [40 CFR 63.147] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G.
- 327 [40 CFR 63.149(a)] Comply with the provisions of 40 CFR 63 Subpart G Table 35 for each item of equipment meeting all the criteria specified in 40 CFR 63.149(b) through (d) and either (e)(1) or (e)(2). Subpart G. [40 CFR 63.149(a)]

EQ10150 Wastewater Stream, byproduct water from No. 3 OHC Train

- 328 [40 CFR 61.65(b)(9)(i)] Inprocess wastewater (vinyl chloride > 10ppm): Vinyl chloride <= 10 ppmw before being mixed with any other inprocess wastewater stream which contains less than 10 ppm vinyl chloride; before being exposed to the atmosphere; before being discharged to a wastewater treatment process; or before being discharged untreated as a wastewater. Subpart F. [40 CFR 61.65(b)(9)(i)]
Which Months: All Year Statistical Basis: None specified
- 329 [40 CFR 61.65(b)(9)(ii)] Inprocess wastewater: Duct any vinyl chloride removed from inprocess wastewater in accordance with 40 CFR 61.65(b)(9)(i) through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm (average for 3-hour period), or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(9)(ii)]
- 330 [40 CFR 63.132(b)(1)] Determine whether each wastewater stream requires control for Table 8 compounds by complying with the requirements in either 40 CFR 63.132(b)(1)(i) or (b)(1)(ii), and (b)(1)(iii). Subpart G. [40 CFR 63.132(b)(1)]
- 331 [40 CFR 63.132(b)(2)] Determine whether each wastewater stream requires control for Table 9 compounds by complying with the requirements in 40 CFR 63.132(b)(2)(i) or (b)(2)(ii), and (b)(2)(iii). Subpart G. [40 CFR 63.132(b)(2)]

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

EQ10150 Wastewater Stream, byproduct water from No. 3 OHC Train

- 332 [40 CFR 63.132(c)] Determine total annual average concentration of Table 9 compounds according to the procedures in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 9 compounds. Redetermine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 stream Subpart G. [40 CFR 63.132(c)]
- 333 [40 CFR 63.132(d)] Determine annual average concentration for each Table 8 compound according to the procedures specified in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures specified in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 8 compounds. Redetermine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 stream. Subpart G. [40 CFR 63.132(d)]
- 334 [40 CFR 63.132(f)] Do not discard liquid or solid organic materials with a concentration of greater than 10,000 ppm of Table 9 compounds (as determined by analysis of the stream composition, engineering calculations, or process knowledge, according to the provisions of 40 CFR 63.144(b)) from a chemical manufacturing process unit to water or wastewater, unless the receiving stream is managed and treated as a Group 1 wastewater stream. Subpart G. [40 CFR 63.132(f)]
- 335 [40 CFR 63.138(g)] Required mass removal (RMR): Organic HAP >= 95 percent as specified in 40 CFR 63.138(g). Subpart G. [40 CFR 63.138(g)]
Which Months: All Year Statistical Basis: None specified
- 336 [40 CFR 63.138(j)] Demonstrate compliance with 40 CFR 63.138(b)(1), (c)(1), (e), (f), and/or (g) using the procedures in either 40 CFR 63.138(j)(1) or (j)(2), except as specified in 40 CFR 63.138(j)(3) or (h). Subpart G. [40 CFR 63.138(j)]
- 337 [40 CFR 63.138(k)(2)] Residuals: Return the wastewater stream residual to the treatment process. Subpart G. [40 CFR 63.138(k)(2)]
- 338 [40 CFR 63.147] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G.
- 339 [40 CFR 63.149(a)] Comply with the provisions of 40 CFR 63 Subpart G Table 35 for each item of equipment meeting all the criteria specified in 40 CFR 63.149(b) through (d) and either (e)(1) or (e)(2). Subpart G. [40 CFR 63.149(a)]

EQ10151 Wastewater Stream, washing water from OHC train

- 340 [40 CFR 61.65(b)(9)(i)] Inprocess wastewater (vinyl chloride > 10ppm): Vinyl chloride <= 10 ppmw before being mixed with any other inprocess wastewater stream which contains less than 10 ppm vinyl chloride; before being exposed to the atmosphere; before being discharged to a wastewater treatment process; or before being discharged untreated as a wastewater. Subpart F. [40 CFR 61.65(b)(9)(i)]
Which Months: All Year Statistical Basis: None specified
- 341 [40 CFR 61.65(b)(9)(ii)] Inprocess wastewater: Duct any vinyl chloride removed from inprocess wastewater in accordance with 40 CFR 61.65(b)(9)(i) through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm (average for 3-hour period), or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(9)(ii)]
- 342 [40 CFR 63.132(b)(1)] Determine whether each wastewater stream requires control for Table 8 compounds by complying with the requirements in either 40 CFR 63.132(b)(1)(i) or (b)(1)(ii), and (b)(1)(iii). Subpart G. [40 CFR 63.132(b)(1)]
- 343 [40 CFR 63.132(b)(2)] Determine whether each wastewater stream requires control for Table 9 compounds by complying with the requirements in 40 CFR 63.132(b)(2)(i) or (b)(2)(ii), and (b)(2)(iii). Subpart G. [40 CFR 63.132(b)(2)]

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

EQ10151 Wastewater Stream, washing water from OHC train

- 344 [40 CFR 63.132(c)] Determine total annual average concentration of Table 9 compounds according to the procedures in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 9 compounds. Redetermine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 stream. Subpart G. [40 CFR 63.132(c)]
- 345 [40 CFR 63.132(d)] Determine annual average concentration for each Table 8 compound according to the procedures specified in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures specified in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 8 compounds. Redetermine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 stream. Subpart G. [40 CFR 63.132(d)]
- 346 [40 CFR 63.132(f)] Do not discard liquid or solid organic materials with a concentration of greater than 10,000 ppm of Table 9 compounds (as determined by analysis of the stream composition, engineering calculations, or process knowledge, according to the provisions of 40 CFR 63.144(b)) from a chemical manufacturing process unit to water or wastewater, unless the receiving stream is managed and treated as a Group 1 wastewater stream. Subpart G. [40 CFR 63.132(f)]
- 347 [40 CFR 63.138(g)] Required mass removal (RMR): Organic HAP >= 95 percent as specified in 40 CFR 63.138(g). Subpart G. [40 CFR 63.138(g)]
- 348 [40 CFR 63.138(j)] Which Months: All Year Statistical Basis: None specified
- 349 [40 CFR 63.138(k)(2)] Demonstrate compliance with 40 CFR 63.138(b)(1), (c)(1), (e), (f), and/or (g) using the procedures in either 40 CFR 63.138(j)(1) or (j)(2), except as specified in 40 CFR 63.138(j)(3) or (h). Subpart G. [40 CFR 63.138(j)]
- 350 [40 CFR 63.147] Residuals: Return the wastewater stream residual to the treatment process. Subpart G. [40 CFR 63.138(k)(2)]
- 351 [40 CFR 63.149(a)] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G. [40 CFR 63.149(a)]
- 352 [40 CFR 63.149(b)] Comply with the provisions of 40 CFR 63 Subpart G Table 35 for each item of equipment meeting all the criteria specified in 40 CFR 63.149(b) through (d) and either (e)(1) or (e)(2). Subpart G. [40 CFR 63.149(a)]

EQ10152 Wastewater Stream, water from EDC purification column

- 352 [40 CFR 61.65(b)(9)(i)] Inprocess wastewater (vinyl chloride > 10ppm): Vinyl chloride <= 10 ppmw before being mixed with any other inprocess wastewater stream which contains less than 10 ppm vinyl chloride; before being exposed to the atmosphere; before being discharged to a wastewater treatment process; or before being discharged untreated as a wastewater. Subpart F. [40 CFR 61.65(b)(9)(i)]
- 353 [40 CFR 61.65(b)(9)(ii)] Which Months: All Year Statistical Basis: None specified
- 354 [40 CFR 61.65(b)(9)(iii)] Inprocess wastewater: Duct any vinyl chloride removed from inprocess wastewater in accordance with 40 CFR 61.65(b)(9)(i) through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm (average for 3-hour period), or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(9)(ii)]
- 354 [40 CFR 63.132(b)(1)] Determine whether each wastewater stream requires control for Table 8 compounds by complying with the requirements in either 40 CFR 63.132(b)(1)(i) or (b)(1)(ii), and (b)(1)(iii). Subpart G. [40 CFR 63.132(b)(1)]
- 355 [40 CFR 63.132(b)(2)] Determine whether each wastewater stream requires control for Table 9 compounds by complying with the requirements in 40 CFR 63.132(b)(2)(i) or (b)(2)(ii), and (b)(2)(iii). Subpart G. [40 CFR 63.132(b)(2)]

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant
 Activity Number: PER20070007
 Permit Number: 3063-V0
 Air - Title V Regular Permit Initial

EQT0152 Wastewater Stream, water from EDC purification column

- 356 [40 CFR 63.132(c)] Determine total annual average concentration of Table 9 compounds according to the procedures in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 9 compounds. Redetermine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 stream Subpart G. [40 CFR 63.132(c)]
- 357 [40 CFR 63.132(d)] Determine annual average concentration for each Table 8 compound according to the procedures specified in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures specified in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 8 compounds. Redetermine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 stream. Subpart G. [40 CFR 63.132(d)]
- 358 [40 CFR 63.132(f)] Do not discard liquid or solid organic materials with a concentration of greater than 10,000 ppm of Table 9 compounds (as determined by analysis of the stream composition, engineering calculations, or process knowledge, according to the provisions of 40 CFR 63.144(b)) from a chemical manufacturing process unit to water or wastewater, unless the receiving stream is managed and treated as a Group 1 wastewater stream. Subpart G. [40 CFR 63.132(f)]
- 359 [40 CFR 63.138(g)] Required mass removal (RMR): Organic HAP >= 95 percent as specified in 40 CFR 63.138(g). Subpart G. [40 CFR 63.138(g)]
- 360 [40 CFR 63.138(j)] Which Months: All Year Statistical Basis: None specified Demonstrate compliance with 40 CFR 63.138(b)(1), (c)(1), (e), (f), and/or (g) using the procedures in either 40 CFR 63.138(j)(1) or (j)(2), except as specified in 40 CFR 63.138(j)(3) or (h). Subpart G. [40 CFR 63.138(j)]
- 361 [40 CFR 63.138(k)(2)] Residuals: Return the wastewater stream residual to the treatment process. Subpart G. [40 CFR 63.138(k)(2)]
- 362 [40 CFR 63.147] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G.
- 363 [40 CFR 63.149(a)] Comply with the provisions of 40 CFR 63 Subpart G Table 35 for each item of equipment meeting all the criteria specified in 40 CFR 63.149(b) through (d) and either (e)(1) or (e)(2). Subpart G. [40 CFR 63.149(a)]

EQT0162 VCM Railcar Loading Racks

- 364 [40 CFR 61.65(b)(1)(i)] Loading and unloading lines: Vinyl chloride <= 0.0038 m^3 (0.13 ft^3) at standard pressure, in all parts of each loading or unloading line that are to be opened to the atmosphere, after each loading or unloading operation and before opening a loading or unloading line to the atmosphere. Subpart F. [40 CFR 61.65(b)(1)(i)]
- 365 [40 CFR 61.65(b)(1)(ii)] Which Months: All Year Statistical Basis: None specified Loading and unloading lines: Duct any vinyl chloride removed from a loading or unloading line in accordance with 40 CFR 61.65(b)(1)(i) through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm (average for 3-hour period), or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(1)(ii)]
- 366 [40 CFR 61.65(b)(2)] Slip gauges: Minimize vinyl chloride emissions during loading or unloading operations by ducting any vinyl chloride discharged from the slip gauge through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm (average for 3-hour period), or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(2)]
- 367 [LAC 33-III.2107.B] Equip with a vapor collection system consisting of, at a minimum, a vapor return line which returns all vapors displaced during loading to the VOC dispensing vessel or to a disposal system.

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

EQT0162 VCM Railcar Loading Racks

- 368 [LAC 33:III.2107.B] Prevent spills during the attachment and disconnection of filling lines or arms. Equip loading and vapor lines with fittings which close automatically when disconnected, or equip to permit residual VOC in the loading line to discharge into a collection system or disposal or recycling system.
- 369 [LAC 33:III.2107.B] VOC, Total >= 90 % DRE, using a vapor disposal system.
Which Months: All Year Statistical Basis: None specified
- 370 [LAC 33:III.2107.C] Discontinue loading or unloading through the affected transfer lines when a leak is observed; do not resume loading or unloading until the observed leak is repaired.
- 371 [LAC 33:III.2107.C] VOC, Total monitored by visual, audible, and/or olfactory during loading or unloading, to detect leaks.
Which Months: All Year Statistical Basis: None specified
- 372 [LAC 33:III.2107.D] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2107.D.1 and 2.
- 373 [LAC 33:III.2107.E] Determine compliance with LAC 33:III.2107.B using the methods in LAC 33:III.2107.E.1 through 5, as appropriate.

EQT0163 VCM Railcar Loading Racks

- 374 [40 CFR 61.65(b)(1)(i)] Loading and unloading lines: Vinyl chloride <= 0.0038 m³ (0.13 ft³) at standard pressure, in all parts of each loading or unloading line that are to be opened to the atmosphere, after each loading or unloading operation and before opening a loading or unloading line to the atmosphere.
Subpart F. [40 CFR 61.65(b)(1)(i)]
Which Months: All Year Statistical Basis: None specified
- 375 [40 CFR 61.65(b)(1)(ii)] Loading and unloading lines: Duct any vinyl chloride removed from a loading or unloading line in accordance with 40 CFR 61.65(b)(1)(i) through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm (average for 3-hour period), or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(1)(ii)]
- 376 [40 CFR 61.65(b)(2)] Slip gauges: Minimize vinyl chloride emissions during loading or unloading operations by ducting any vinyl chloride discharged from the slip gauge through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm (average for 3-hour period), or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(2)]
- 377 [LAC 33:III.2108.C.1] Equip with a vapor collection system designed to collect the organic compounds vapors displaced from ships and/or barges during loading.
- 378 [LAC 33:III.2108.C.2] VOC, Total >= 90 % reduction by weight by collecting and processing the vapors with a recovery and/or destruction system.
Which Months: All Year Statistical Basis: None specified
- 379 [LAC 33:III.2108.C.3.a] Barge loading of gasoline: Total Organic Compounds (TOC) <= 70 mg/l of VOC loaded (0.6 lb/1000 gal).
Which Months: All Year Statistical Basis: None specified
- 380 [LAC 33:III.2108.C.3.b] Barge loading of crude oil or other VOCs: Total Organic Compounds (TOC) <= 30 mg/l of VOC loaded (0.25 lb/1000 gal).
Which Months: All Year Statistical Basis: None specified
- 381 [LAC 33:III.2108.C.3.c] Ship loading of gasoline: Total Organic Compounds (TOC) <= 30 mg/l of VOC loaded (0.25 lb/1000 gal).
Which Months: All Year Statistical Basis: None specified
- 382 [LAC 33:III.2108.C.3.d] Ship loading of crude oil or other VOCs: Total Organic Compounds (TOC) <= 12 mg/l of VOC loaded (0.1 lb/1000 gal).
Which Months: All Year Statistical Basis: None specified
- 383 [LAC 33:III.2108.C.5] Load only into ships and/or barges equipped with vapor collection equipment that is compatible with the affected facility's vapor collection system.

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

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Air - Title V Regular Permit Initial

EQT0163 VCM Railcar Loading Racks

- 384 [LAC 33:III.2108.C.6] Properly connect the vapor collection and disposal system to the ships and/or barges before any loading is done.
- 385 [LAC 33:III.2108.D.4] Comply with the requirements of LAC 33:III.2108 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2108 as a result of a revision of LAC 33:III.2108.
- 386 [LAC 33:III.2108.E] Determine compliance with LAC 33:III.2108.C.3 using the methods in LAC 33:III.2108.E.1-5, as appropriate.
- 387 [LAC 33:III.2108.F.1] Submit test results: Due to the Office of Environmental Assessment within 45 days of any testing done in accordance with LAC 33:III.2108.E. Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2108.F.2.a-e, as applicable.
- 389 [LAC 33:III.2108.G.1] Loading gasoline, crude oil or other VOCs into ships or barges is prohibited unless all loading and vapor lines, arms and hoses are equipped with fittings which make vapor-tight connections and provide tight shut-off when disconnected.
- 390 [LAC 33:III.2108.G.2] Prevent spills or leaks during attachment or disconnection of filling lines, hoses or arms. Do not spill liquids or handle in any other manner that would result in evaporation to the atmosphere.
- 391 [LAC 33:III.2108.G.3] Maintain all equipment associated with the loading of gasoline, crude oil or other VOC into ships or barges to be leak-free, gas-tight and in good working order.

EQT0164 EDC Railcar Loading Racks

- 392 [LAC 33:III.2108.C.1] Equip with a vapor collection system designed to collect the organic compounds vapors displaced from ships and/or barges during loading.
- 393 [LAC 33:III.2108.C.2] VOC, Total >= 90 % reduction by weight by collecting and processing the vapors with a recovery and/or destruction system.
Which Months: All Year Statistical Basis: None specified
- 394 [LAC 33:III.2108.C.3.a] Barge loading of gasoline: Total Organic Compounds (TOC) <= 70 mg/l of VOC loaded (0.6 lb/1000 gal).
Which Months: All Year Statistical Basis: None specified
- 395 [LAC 33:III.2108.C.3.b] Barge loading of crude oil or other VOCs: Total Organic Compounds (TOC) <= 30 mg/l of VOC loaded (0.25 lb/1000 gal).
Which Months: All Year Statistical Basis: None specified
- 396 [LAC 33:III.2108.C.3.c] Ship loading of gasoline: Total Organic Compounds (TOC) <= 30 mg/l of VOC loaded (0.25 lb/1000 gal).
Which Months: All Year Statistical Basis: None specified
- 397 [LAC 33:III.2108.C.3.d] Ship loading of crude oil or other VOCs: Total Organic Compounds (TOC) <= 12 mg/l of VOC loaded (0.1 lb/1000 gal).
Which Months: All Year Statistical Basis: None specified
- 398 [LAC 33:III.2108.C.5] Load only into ships and/or barges equipped with vapor collection equipment that is compatible with the affected facility's vapor collection system.
- 399 [LAC 33:III.2108.C.6] Properly connect the vapor collection and disposal system to the ships and/or barges before any loading is done.
- 400 [LAC 33:III.2108.D.4] Comply with the requirements of LAC 33:III.2108 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2108 as a result of a revision of LAC 33:III.2108.
- 401 [LAC 33:III.2108.E] Determine compliance with LAC 33:III.2108.C.3 using the methods in LAC 33:III.2108.E.1-5, as appropriate.
- 402 [LAC 33:III.2108.F.1] Submit test results: Due to the Office of Environmental Assessment within 45 days of any testing done in accordance with LAC 33:III.2108.E. Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2108.F.2.a-e, as applicable.
- 403 [LAC 33:III.2108.F.2]

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EQT0164 EDC Railcar Loading Racks

- 404 [LAC 33:III.2.108.G.1] Loading gasoline, crude oil or other VOCs into ships or barges is prohibited unless all loading and vapor lines, arms and hoses are equipped with fittings which make vapor-tight connections and provide tight shut-off when disconnected.
- 405 [LAC 33:III.2.108.G.2] Prevent spills or leaks during attachment or disconnection of filling lines, hoses or arms. Do not spill liquids or handle in any other manner that would result in evaporation to the atmosphere.
- 406 [LAC 33:III.2.108.G.3] Maintain all equipment associated with the loading of gasoline, crude oil or other VOC into ships or barges to be leak-free, gas-tight and in good working order.

EQT0166 Feed Tank

- 407 [40 CFR 61.343(a)(1)(i)(A)] Fixed roof: Ensure that the cover and all openings are designed to operate with no detectable emissions as indicated by an instrument reading less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.343(a)(1)(i)(A)]
- 408 [40 CFR 61.343(a)(1)(i)(B)] Fixed roof: Maintain each opening in a closed, sealed position at all times that waste is in the tank except when it is necessary to use the opening for waste sampling or removal, or for equipment inspection, maintenance, or repair, except as specified in 40 CFR 61.343(a)(1)(i)(C). Subpart FF. [40 CFR 61.343(a)(1)(i)(B)]
- 409 [40 CFR 61.343(a)(1)] Install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device. Subpart FF. [40 CFR 61.343(a)(1)]
- 410 [40 CFR 61.343(c)] Fixed-roof: Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that access doors and other openings are closed and gasketed properly. Subpart FF. [40 CFR 61.343(c)]
 Which Months: All Year Statistical Basis: None specified
- 411 [40 CFR 61.343(d)] Make first efforts at repair as soon as practicable, but not later than 45 calendar days after a broken seal or gasket or other problem is identified, or when detectable emissions are measured, except as provided in 40 CFR 61.350. Subpart FF. [40 CFR 61.343(d)]
- 412 [40 CFR 61.356] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency Maintain records as specified in 40 CFR 61.356(a) through (n), as applicable. Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.
- 413 [40 CFR 63.103(b)(2)] Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 414 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- 415 [40 CFR 63.119(a)(1)] Reduce hazardous air pollutants emissions to the atmosphere either by operating and maintaining a fixed roof and internal floating roof, an external floating roof, an external floating roof converted to an internal floating roof, a closed-vent system and control device, routing the emissions to a process or a fuel gas system, or vapor balancing in accordance with the requirements in 40 CFR 63.119(b), (c), (d), (e), (f), or (g) or equivalent as provided in 40 CFR 63.121. Subpart G. [40 CFR 63.119(a)(1)]
- 416 [40 CFR 63.119(a)(2)] Operate and maintain a closed-vent system and control device meeting the requirements specified in 40 CFR 63.119(e), route the emissions to a process or a fuel gas system as specified in 40 CFR 63.119(f), vapor balance as specified in 40 CFR 63.119(g), or equivalent as provided in 40 CFR 63.121. Subpart G. [40 CFR 63.119(a)(2)]
- 417 [40 CFR 63.122(a)(3)] Submit a Notification of Compliance Status as required by 40 CFR 63.152(b). Include the information specified in 40 CFR 63.122(c). Subpart G. [40 CFR 63.122(a)(3)]

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EQT0166 Feed Tank

- 418 [40 CFR 63.122(a)(4)] Submit Periodic Reports as required by 40 CFR 63.152(d). Include the information specified in 40 CFR 63.122(d), (e), (f), and (g). Subpart G. [40 CFR 63.122(a)(4)]
- 419 [40 CFR 63.123] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep readily accessible records of the information specified in 40 CFR 63.123(a) through (i), as applicable. Keep the records as long as the storage vessel retains Group 1 status and is in operation. Subpart G.
- 420 [LAC 33:III.2103.A.] Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.
- 421 [LAC 33:III.2103.E.1] VOC, Total >= 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
 Which Months: All Year Statistical Basis: None specified
- 422 [LAC 33:III.2103.E.2] VOC, Total >= 90 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.
 Which Months: All Year Statistical Basis: None specified
- 423 [LAC 33:III.2103.H.3] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
- 424 [LAC 33:III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

FUG0006 Fugitive Emission (Blo)

- 425 [LAC 33:III.504] LAER is achieved by conducting an LDAR program as provided in 40 CFR 63 Subpart H to limit VOC emissions to 0.31 lb/hr.

FUG0008 VCM Unit Fugitive Emissions

- 426 [40 CFR 61.65(a)] Relief valves: Do not discharge to the atmosphere from any relief valve on any equipment in vinyl chloride service, except for an emergency relief discharge, and except as provided in 40 CFR 61.65(d). Subpart F. [40 CFR 61.65(a)]
- 427 [40 CFR 61.65(a)] Relief valves: Submit report in writing within 10 days of any relief valve discharge, except for those subject to 40 CFR 61.65(d). Submit a report containing information on the source, nature and cause of the discharge, the date and time of the discharge, the approximate total vinyl chloride loss during the discharge, the method used for determining the vinyl chloride loss (the calculation of the vinyl chloride loss), the action that was taken to prevent the discharge, and measures adopted to prevent future discharges. Subpart F. [40 CFR 61.65(a)]
- 428 [40 CFR 61.65(b)(1)(ii)] Loading and unloading lines: Duct any vinyl chloride removed from a loading or unloading line in accordance with 40 CFR 61.65(b)(1)(i) through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm (average for 3-hour period), or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(1)(ii)]
- 429 [40 CFR 61.65(b)(2)] Slip gauges: Minimize vinyl chloride emissions during loading or unloading operations by ducting any vinyl chloride discharged from the slip gauge through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm (average for 3-hour period), or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(2)]

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FUG0008 VCM Unit Fugitive Emissions

- 430 [40 CFR 61.65(b)(3)(i)] Pumps (rotating): Minimize vinyl chloride emissions from seals on all rotating pumps by installing sealless pumps, pumps with double mechanical seals, or equivalent as provided in 40 CFR 61.66. If double mechanical seals are used, minimize vinyl chloride emissions from the seals by maintaining the pressure between the two seals so that any leak that occurs is into the pump; by ducting any vinyl chloride between the two seals through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm; or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(3)(i)]
- 431 [40 CFR 61.65(b)(3)(ii)] Pumps (reciprocating): Minimize vinyl chloride emissions from seals on all reciprocating pumps by installing double outboard seals, or equivalent as provided in 40 CFR 61.66. If double outboard seals are used, minimize vinyl chloride emissions from the seals by maintaining the pressure between the two seals so that any leak that occurs is into the pump; by ducting any vinyl chloride between the two seals through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm; or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(3)(ii)]
- 432 [40 CFR 61.65(b)(3)(iii)] Compressors (rotating): Minimize vinyl chloride emissions from seals on all rotating compressors by installing compressors with double mechanical seals, or equivalent as provided in 40 CFR 61.66. If double mechanical seals are used, minimize vinyl chloride emissions from the seals by maintaining the pressure between the two seals so that any leak that occurs is into the compressor; by ducting any vinyl chloride between the two seals through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm; or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(3)(iii)]
- 433 [40 CFR 61.65(b)(3)(iv)] Compressors (reciprocating): Minimize vinyl chloride emissions from seals on all reciprocating compressors by installing double outboard seals, or equivalent as provided in 40 CFR 61.66. If double outboard seals are used, minimize vinyl chloride emissions from the seals by maintaining the pressure between the two seals so that any leak that occurs is into the compressor; by ducting any vinyl chloride between the two seals through a control system from which concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm; or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(3)(iv)]
- 434 [40 CFR 61.65(b)(3)(v)] Agitators: Minimize vinyl chloride emissions from seals on all agitators by installing agitators with double mechanical seals, or equivalent as provided in 40 CFR 61.66. If double mechanical seals are used, minimize vinyl chloride emissions from the seals by maintaining the pressure between the two seals so that any leak that occurs is into the agitated vessel; by ducting any vinyl chloride between the two seals through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm; or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(3)(v)]
- 435 [40 CFR 61.65(b)(4)] Relief valves (leaks): Comply with 40 CFR 61.242-4 of subpart V. Subpart F. [40 CFR 61.65(b)(4)]
- 436 [40 CFR 61.65(b)(5)] Duct all gases which are manually vented from equipment in vinyl chloride service through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm (average for 3-hour period), or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(5)]
- 437 [40 CFR 61.65(b)(6)(ii)] Duct any vinyl chloride removed from the equipment in accordance with 40 CFR 61.65(b)(6)(i) through a control system from which the concentration of vinyl chloride in the exhaust gas does not exceed 10 ppm (average for 3-hour period) or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(6)(ii)]
- 438 [40 CFR 61.65(b)(7)] Return unused portions of samples containing at least 10 percent by weight vinyl chloride to the process or destroy in a control device from which concentration of vinyl chloride in the exhaust gas does not exceed 10 ppm (average for 3-hour period) or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(7)]
- 439 [40 CFR 61.65(b)(8)(i)] Operate a reliable and accurate vinyl chloride monitoring system in accordance with the specifications in 40 CFR 61.65(b)(8)(i) for detection of major leaks and identification of the general area of the plant where a leak is located. Subpart F. [40 CFR 61.65(b)(8)(i)]

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FUG008 VCM Unit Fugitive Emissions

- 440 [40 CFR 61.65(b)(8)(iii)] Implement a formal leak detection and repair program consistent with 40 CFR 61 Subpart V, except as provided in 40 CFR 61.65(b)(8)(iii). Implement this program within 90 days of the effective date of 40 CFR 61 Subpart F. Subpart F. [40 CFR 61.65(b)(8)(ii)]
- 441 [40 CFR 61.65(b)(9)(ii)] Inprocess wastewater: Duct any vinyl chloride removed from inprocess wastewater in accordance with 40 CFR 61.65(b)(9)(i) through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm (average for 3-hour period), or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(9)(ii)]
- 442 [40 CFR 61.65(c)] Incorporate the requirements in 40 CFR 61.65(b)(1), (b)(2), (b)(5), (b)(6), (b)(7), and (b)(8) into a standard operating procedure, and make available upon request for inspection by DEQ. Include provisions for measuring the vinyl chloride in equipment 4.75 m³ (1255 gal) in volume for which an emission limit is prescribed in 40 CFR 61.65(b)(6)(i) after opening the equipment and using Method 106, a portable hydrocarbon detector, or an alternative method. Subpart F. [40 CFR 61.65(c)]
- 443 [40 CFR 61.67(a)(1)] Test emissions from the source within 90 days of the effective date of 40 CFR 61 Subpart F. Conduct test as specified in 40 CFR 61.67(c) through (g). Subpart F. [40 CFR 61.67(a)(1)]
- 444 [40 CFR 61.67(a)(2)] Test emissions from the source within 90 days of startup. Conduct test as specified in 40 CFR 61.67(c) through (g). Subpart F. [40 CFR 61.67(a)(2)]
- 445 [40 CFR 61.67(b)] Provide DEQ at least 30 days prior notice of an emission test to afford DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 61.67(b)]
- 446 [40 CFR 61.67(e)] Submit test results: Due before the close of the next business day following the determination of vinyl chloride emissions. Submit the results by registered letter. Subpart F. [40 CFR 61.67(e)]
- 447 [40 CFR 61.67(f)] Performance Test Data recordkeeping by electronic or hard copy as needed. Retain at the plant and make available, upon request, for inspection by DEQ, records of emission test results and other data needed to determine emissions. Retain records for a minimum of three years. Subpart F. [40 CFR 61.67(f)]
- 448 [40 CFR 61.68(c)] Conduct a daily span check for each vinyl chloride monitoring system used, as specified. Subpart F. [40 CFR 61.68(c)]
- 449 [40 CFR 61.68(d)] Calculate the vinyl chloride content of emissions by best practical engineering judgment based on the discharge duration and known vinyl chloride concentrations in the affected equipment as determined in accordance with 40 CFR 61.67(h) or other acceptable method, for exhaust gases having emission limits that are subject to the requirement of 40 CFR 61.68(a) that are emitted to the atmosphere without passing through the control system and required vinyl chloride monitoring system. Subpart F. [40 CFR 61.68(d)]
- 450 [40 CFR 61.68(f)] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. For each vinyl chloride emission to the atmosphere determined in accordance with 40 CFR 61.68(e) to be in excess of the applicable emission limits, record the identity of the source(s), the date, time and duration of the excess emission, the cause of the excess emission, and the approximate total vinyl chloride loss during the excess emission, and the method used for determining the vinyl chloride loss. Retain and make available for inspection by DEQ as required by 40 CFR 61.71(a). Subpart F. [40 CFR 61.68(f)]
- 451 [40 CFR 61.68] Vinyl chloride monitored by continuous emission monitor (CEM) continuously. Monitor emissions from the sources for which emission limits are prescribed in 40 CFR 61.62(a) and (b), 61.63(a), and 61.64(a)(1), (b), (c) and (d), and for any control system to which reactor emissions are required to be ducted in 40 CFR 61.64(a)(2) or to which fugitive emissions are required to be ducted in 40 CFR 61.65(b)(1)(ii) and (b)(2), (b)(5), (b)(6)(ii) and (b)(9)(ii). Use a device that meets the requirements in 40 CFR 61.68(b). Subpart F.
Which Months: All Year Statistical Basis: None specified
- 452 [40 CFR 61.71(a)] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Record the information specified in 40 CFR 61.71(a)(1) through (a)(4) and make it available for inspection to DEQ for a minimum of three years. Subpart F. [40 CFR 61.71(a)]

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FUG0008 VCM Unit Fugitive Emissions

- 453 [40 CFR 63.162(c)] Identify each piece of equipment in a process unit such that it can be distinguished readily from equipment that is not subject to 40 CFR 63 Subpart H. [40 CFR 63.162(c)]
- 454 [40 CFR 63.162(f)] Clearly identify leaking equipment, for leaking equipment detected as specified in 40 CFR 63.163, 40 CFR 63.164, 40 CFR 63.168, 40 CFR 63.169, and 40 CFR 63.172 through 63.174. The identification may be removed after the equipment is repaired, except for valves or for connectors subject to 40 CFR 63.174(c)(1)(i). The identification on a valve may be removed after it has been monitored as specified in 40 CFR 63.168(f)(3) and 63.175(e)(i)(D), and no leak has been detected during the follow-up monitoring. If electing to comply using the provisions of 40 CFR 63.174(c)(1)(i), the identification on a connector may be removed after it is monitored as specified in 40 CFR 63.174(c)(1)(i) and no leak is detected during that monitoring. Subpart H. [40 CFR 63.162(f)]
- 455 [40 CFR 63.163(b)(1)] Pumps in light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks, except as provided in 40 CFR 63.162(b) and 63.163(e) through (j). If a reading of 10,000 ppm (phase I); 5,000 ppm (phase II); or 5,000 ppm (phase III, pumps handling polymerizing monomers), 2,000 ppm (phase III, pumps in food/medical service), or 1,000 ppm (phase III, all other pumps) or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.163(c). Subpart H. [40 CFR 63.163(b)(1)]
Which Months: All Year Statistical Basis: None specified
- 456 [40 CFR 63.163(b)(3)] Pumps in light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquids dripping from the pump seal, a leak is detected. If a leak is detected, initiate the repair provisions specified in 40 CFR 63.163(c). Subpart H. [40 CFR 63.163(b)(3)]
Which Months: All Year Statistical Basis: None specified
- 457 [40 CFR 63.163(c)] Pumps in light liquid service: Make a first attempt at repair no later than 5 calendar days after a leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.163(c)(3) and 40 CFR 63.171. Subpart H. [40 CFR 63.163(c)]
- 458 [40 CFR 63.163(d)(2)] Pumps in light liquid service: Implement a quality improvement program for pumps that complies with the requirements of 40 CFR 63.176, if, in Phase III, calculated on a 6-month rolling average, the greater of either 10 percent of the pumps in a process unit or three pumps in a process unit leak. Subpart H. [40 CFR 63.163(d)(2)]
- 459 [40 CFR 63.163(d)(4)] Pumps in light liquid service: Determine percent leaking pumps using the equation in 40 CFR 63.163(d)(4). Subpart H. [40 CFR 63.163(d)(4)]
- 460 [40 CFR 63.163(e)(1)] Pumps in light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times greater than the pump stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172; or equip with a closed-loop system that purges the barrier fluid into a process stream. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(1)]
- 461 [40 CFR 63.163(e)(2)] Pumps in light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid service. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(2)]
- 462 [40 CFR 63.163(e)(3)] Pumps in light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(3)]

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FUG0008 VCM Unit Fugitive Emissions

- 463 [40 CFR 63.163(e)(4)] Pumps in light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquid dripping from the pump seal at the time of the weekly inspection, monitor the pump as specified in 40 CFR 63.180(b) to determine if there is a leak of organic HAP in the barrier fluid. If an instrument reading of 1,000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate the repair provisions in 40 CFR 63.163(e)(6). Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(4)] Which Months: All Year Statistical Basis: None specified
- 464 [40 CFR 63.163(e)(6)(i)] Pumps in light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria that indicates failure of the seal system, the barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(6)(i)]
- 465 [40 CFR 63.163(e)(6)] Pumps in light liquid service (dual mechanical seal system): Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(6)]
- 466 [40 CFR 63.163(e)] Pumps in light liquid service (dual mechanical seal system - sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an audible alarm unless the pump is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criteria established in 40 CFR 63.163(e)(6), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.163(e)(6). Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)] Which Months: All Year Statistical Basis: None specified
- 467 [40 CFR 63.163(h)] Pumps in light liquid service (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulation's specified frequency. Monitor each pump as often as practicable and at least monthly. Comply with this requirement instead of the weekly visual inspection requirement of 40 CFR 63.163(b)(3) and (e)(4), and the daily requirements of 40 CFR 63.163(e)(5). Subpart H. [40 CFR 63.163(h)] Which Months: All Year Statistical Basis: None specified
- 468 [40 CFR 63.163(j)(1)] Pumps in light liquid service (unsafe-to-monitor): Determine that the pump is unsafe-to-monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.163(b) through (d). Comply with this requirement instead of the requirements in 40 CFR 63.163(b) through (e). Subpart H. [40 CFR 63.163(j)(1)]
- 469 [40 CFR 63.163(j)(2)] Pumps in light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the pump as frequently as practicable during safe-to-monitor times but not more frequently than the periodic monitoring schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.163(b) through (e). Subpart H. [40 CFR 63.163(j)(2)] Which Months: All Year Statistical Basis: None specified
- 470 [40 CFR 63.164(a)] Compressors: Equip with a seal system that includes a barrier fluid system and that prevents leakage of process fluid to the atmosphere, except as provided in 40 CFR 63.162(b) and 40 CFR 63.164(h) and (i). Subpart H. [40 CFR 63.164(a)]
- 471 [40 CFR 63.164(b)] Compressors: Operate the seal system with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure; or equip with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172; or equip with a closed-loop system that purges the barrier fluid directly into a process stream. Subpart H. [40 CFR 63.164(b)]
- 472 [40 CFR 63.164(c)] Compressors: Ensure that the barrier fluid is not in light liquid service. Subpart H. [40 CFR 63.164(c)]

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FUG008 VCM Unit Fugitive Emissions

- 473 [40 CFR 63.164(d)] Compressors: Equip each barrier fluid system as described in 40 CFR 63.164(a) through (c) with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart H. [40 CFR 63.164(d)]
- 474 [40 CFR 63.164(e)(2)] Compressors (sensor): Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both. Subpart H. [40 CFR 63.164(e)(2)]
- 475 [40 CFR 63.164(g)] Compressors: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.164(g)]
- 476 [40 CFR 63.164(i)(2)] Compressors (no detectable emissions): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially and annually, and at other times requested by DEQ. Comply with this requirement instead of the requirements in 40 CFR 63.164(a) through (h). Subpart H. [40 CFR 63.164(i)(2)]
- 477 [40 CFR 63.164] Which Months: All Year Statistical Basis: None specified
 Compressors (sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an alarm, unless the compressor is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion determined under 40 CFR 63.164(e)(2), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.164(g). Subpart H.
- 478 [40 CFR 63.165(a)] Which Months: All Year Statistical Basis: None specified
 Pressure relief device in gas/vapor service: Organic HAP < 500 ppm above background except during pressure releases, as determined by the method specified in 63.180(c). Subpart H. [40 CFR 63.165(a)]
- 479 [40 CFR 63.165(b)(1)] Which Months: All Year Statistical Basis: None specified
 Pressure relief devices in gas/vapor service: After each pressure release, return to a condition indicated by an instrument reading of less than 500 ppm above background, as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.165(b)(1)]
- 480 [40 CFR 63.165(b)(2)] Pressure relief devices in gas/vapor service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) after the pressure release and being returned to organic HAP service, to confirm the condition indicated by an instrument reading of less than 500 ppm above background, as measured by the method specified in 40 CFR 63.180(c). Subpart H. [40 CFR 63.165(b)(2)]
- 481 [40 CFR 63.165(d)(2)] Which Months: All Year Statistical Basis: None specified
 Pressure relief devices in gas/vapor service (rupture disk): After each pressure release, install a new rupture disk upstream of the pressure relief device as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.171. Comply with this requirement instead of the requirements in 40 CFR 63.165(a) and (b). Subpart H. [40 CFR 63.165(d)(2)]
- 482 [40 CFR 63.166] Sampling connection systems: Equip with a closed-purge, closed-loop, or closed-vent system, except as provided in 40 CFR 63.162(b). Operate the system as specified in 40 CFR 63.166(b). Subpart H.
- 483 [40 CFR 63.167] Open-ended valves or lines: Equip with a cap, blind flange, plug, or a second valve, except as provided in 40 CFR 63.162(b) and 40 CFR 63.167(d) and (e). Ensure that the cap, blind flange, plug or second valve seals the open end at all times except during operations requiring process fluid flow through the open-ended valve or line, or during maintenance or repair. Operate each open-ended valve or line equipped with a second valve in a manner such that the valve on the process fluid end is closed before the second valve is closed. Subpart H.
- 484 [40 CFR 63.168(c)] Valves in gas/vapor service or light liquid service (Phase I): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Subpart H. [40 CFR 63.168(c)]

Which Months: All Year Statistical Basis: None specified

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- 485 [40 CFR 63.168(c)] Valves in gas/vapor service or light liquid service (Phase II): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Subpart H. [40 CFR 63.168(c)]
Which Months: All Year Statistical Basis: None specified
- 486 [40 CFR 63.168(d)(1)] Valves in gas/vapor service or light liquid service (Phase III, 2 percent or greater leaking valves): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly, as specified in 40 CFR 63.180(b); or implement a quality improvement program for valves that complies with the requirements of 40 CFR 63.175 and monitor quarterly. If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). If electing to implement a quality improvement program, follow the procedures in 40 CFR 63.175. Subpart H. [40 CFR 63.168(d)(1)]
Which Months: All Year Statistical Basis: None specified
- 487 [40 CFR 63.168(d)(2)] Valves in gas/vapor service or light liquid service (Phase III, less than 2 percent leaking valves): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Permittee may elect to comply with the alternate standards in 40 CFR 63.168(d)(3) and (d)(4). Subpart H. [40 CFR 63.168(d)(2)]
Which Months: All Year Statistical Basis: None specified
- 488 [40 CFR 63.168(e)(1)] Valves in gas/vapor service or light liquid service: Determine percent leaking valves using the equation in 40 CFR 63.168(e)(1). Subpart H. [40 CFR 63.168(e)(1)]
- 489 [40 CFR 63.168(f)(3)] Valves in gas/vapor service or light liquid service (after leak repair): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once within three months (at least) after repair to determine whether the valve has resumed leaking. Subpart H. [40 CFR 63.168(f)(3)]
Which Months: All Year Statistical Basis: None specified
- 490 [40 CFR 63.168(f)] Valves in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after a leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.168(f)]
- 491 [40 CFR 63.168(h)(1)] Valves in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.168(b) through (d). Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (f). Subpart H. [40 CFR 63.168(h)(1)]
- 492 [40 CFR 63.168(h)(2)] Valves in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the valves as frequently as practicable during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (f). Subpart H. [40 CFR 63.168(h)(2)]
Which Months: All Year Statistical Basis: None specified
- 493 [40 CFR 63.168(i)(1)] Valves in gas/vapor service or light liquid service (difficult-to-monitor): Demonstrate that the valve cannot be monitored without elevating the monitoring personnel more than 2 meters above a support surface or it is not accessible at anytime in a safe manner. Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (d). Subpart H. [40 CFR 63.168(i)(1)]
- 494 [40 CFR 63.168(j)(3)] Valves in gas/vapor service or light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Maintain a written plan that requires monitoring of the valves at least once per calendar year. Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (d). Subpart H. [40 CFR 63.168(j)(3)]
Which Months: All Year Statistical Basis: None specified

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- 495 [40 CFR 63.169(a)] Pumps, valves, connectors, and agitators in heavy liquid service; instrumentation systems; and pressure relief devices in liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) if evidence of a potential leak to the atmosphere is found by visible, audible, olfactory, or any other detection method. If a reading of 10,000 ppm for agitators, 5,000 ppm for pumps handling polymerizing monomers, 2,000 ppm for all other pumps (including pumps in food/medical service), or 500 ppm for valves, connectors, instrumentation systems, and pressure relief devices, or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.169(c). Subpart H. [40 CFR 63.169(a)]
Which Months: All Year Statistical Basis: None specified
- 496 [40 CFR 63.169(c)] Pumps, valves, connectors, and agitators in heavy liquid service; instrumentation systems; and pressure relief devices in liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.169(c)]
- 497 [40 CFR 63.172(f)(1)(i)] Closed-vent system (hard-piping): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.180(b). If an instrument reading greater than 500 ppm above background is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(f)(1)(i)]
Which Months: All Year Statistical Basis: None specified
- 498 [40 CFR 63.172(f)(1)(ii)] Closed-vent system (hard-piping): Presence of a leak monitored by visual, audible, and/or olfactory annually. If a leak is detected, initiate repair provisions in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(f)(1)(ii)]
Which Months: All Year Statistical Basis: None specified
- 499 [40 CFR 63.172(f)(2)(i)] Closed-vent system (duct work): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.180(b). If an instrument reading greater than 500 ppm above background is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(f)(2)(i)]
Which Months: All Year Statistical Basis: None specified
- 500 [40 CFR 63.172(f)(2)(ii)] Closed-vent system (duct work): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually according to the procedures in 40 CFR 63.180(b). If an instrument reading greater than 500 ppm above background is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(f)(2)(ii)]
Which Months: All Year Statistical Basis: None specified
- 501 [40 CFR 63.172(h)] Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.172(i). Subpart H. [40 CFR 63.172(h)]
- 502 [40 CFR 63.172(k)(1)] Closed-vent system (unsafe-to-inspect): Demonstrate that the equipment is unsafe to inspect because inspecting personnel would be exposed to an imminent or potential dangers as a consequence of complying with 40 CFR 63.172(f)(1) or (f)(2). Comply with this requirement instead of the requirements in 40 CFR 63.172(f)(1) and (f)(2). Subpart H. [40 CFR 63.172(k)(1)]
- 503 [40 CFR 63.172(k)(2)] Closed-vent system (unsafe-to-inspect): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires inspection of the equipment as frequently as practicable during safe-to-inspect times, but not more frequently than annually. Comply with this requirement instead of the requirements in 40 CFR 63.172(f)(1) and (f)(2). Subpart H. [40 CFR 63.172(k)(2)]
Which Months: All Year Statistical Basis: None specified
- 504 [40 CFR 63.172(l)(1)] Closed-vent system (difficult-to-inspect): Demonstrate that the equipment cannot be inspected without elevating the inspecting personnel more than 2 meters above a support surface. Comply with this requirement instead of the requirements in 40 CFR 63.172(f)(1) and (f)(2). Subpart H. [40 CFR 63.172(l)(1)]

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- 505 [40 CFR 63.172(l)(2)] Closed-vent system (difficult-to-inspect): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once every five years. Maintain a written plan that requires inspection of the equipment at least once every five years. Comply with this requirement instead of the requirements in 40 CFR 63.172(f)(1) and (f)(2). Subpart H. [40 CFR 63.172(l)(2)]
 Which Months: All Year Statistical Basis: None specified
 Ensure that the closed-vent system or control device is operating whenever organic HAP emissions are vented to the closed-vent system or control device. Subpart H. [40 CFR 63.172(m)]
- 506 [40 CFR 63.172(m)] Agitators in gas/vapor service or light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks, as specified in 40 CFR 63.180(b). If an instrument reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.173(c). Subpart H. [40 CFR 63.173(a)]
 Which Months: All Year Statistical Basis: None specified
- 507 [40 CFR 63.173(a)] Agitators in gas/vapor service or light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar) for indications of liquids dripping from the agitator. If there are indications of liquids dripping from the agitator, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.173(c). Subpart H. [40 CFR 63.173(b)]
 Which Months: All Year Statistical Basis: None specified
- 508 [40 CFR 63.173(b)] Agitators in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.173(c)]
- 509 [40 CFR 63.173(d)(1)] Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times greater than the agitator stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172; or equip with a closed-loop system that purges the barrier fluid into a process stream. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(1)]
- 510 [40 CFR 63.173(d)(2)] Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid organic HAP service. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(2)]
- 511 [40 CFR 63.173(d)(3)] Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(3)]
- 512 [40 CFR 63.173(d)(4)] Agitators in gas/vapor service or light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the agitator seal. If there are indications of liquid dripping from the agitator seal at the time of the weekly inspection, monitor the agitator as specified in 40 CFR 63.180(b) to determine the presence of organic HAP in the barrier fluid. If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate the repair provisions in 40 CFR 63.173(d)(6). Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(4)]
- 513 [40 CFR 63.173(d)(6)] Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria that indicates failure of the seal system, the barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(6)(i)]

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- 515 [40 CFR 63.173(d)(6)] Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(6)]
- 516 [40 CFR 63.173(d)] Agitators in gas/vapor service or light liquid service (dual mechanical seal system - sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an audible alarm unless the agitator is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criteria established in 40 CFR 63.173(d)(6), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.173(d)(6). Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)]
- 517 [40 CFR 63.173(g)] Which Months: All Year Statistical Basis: None specified
 Agitators in gas/vapor service or light liquid service (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulation's specified frequency. Monitor each agitator as often as practicable and at least monthly. Comply with this requirement instead of the weekly visual inspection requirement of 40 CFR 63.173(b)(1) and (d)(4), and the daily requirements of 40 CFR 63.173(d)(5). Subpart H. [40 CFR 63.173(g)]
- 518 [40 CFR 63.173(h)(1)] Which Months: All Year Statistical Basis: None specified
 Agitators in gas/vapor service or light liquid service (difficult to monitor): Demonstrate that the agitator cannot be monitored without elevating the monitoring personnel more than two meters above a support surface or it is not accessible at anytime in a safe manner. Comply with this requirement instead of the requirements in 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(h)(1)]
- 519 [40 CFR 63.173(h)(3)] Agitators in gas/vapor service or light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Maintain a written plan that requires monitoring of the agitator at least once per calendar year. Comply with this requirement instead of the requirements in 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(h)(3)]
- 520 [40 CFR 63.173(j)(1)] Which Months: All Year Statistical Basis: None specified
 Agitators in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the agitator is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.173(a) through (d). Comply with this requirement instead of the requirements in 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(j)(1)]
- 521 [40 CFR 63.173(j)(2)] Agitators in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the agitator as frequently as practicable during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(j)(2)]
- 522 [40 CFR 63.174(b)(2)] Which Months: All Year Statistical Basis: None specified
 Connectors in gas/vapor service or light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once within the first 12 months after initial startup or by no later than 12 months after the date of promulgation of a specific subpart that references 40 CFR 63 Subpart H, whichever is later, except as specified in 40 CFR 63.174(f) through (h). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(b)(2)]
- 523 [40 CFR 63.174(b)(3)(i)] Which Months: All Year Statistical Basis: None specified
 Connectors in gas/vapor service or light liquid service (0.5% or greater leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Subpart H. [40 CFR 63.174(b)(3)(i)]

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- 524 [40 CFR 63.174(b)(3)(ii)] Connectors in gas/vapor service or light liquid service (less than 0.5% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once every two years. Subpart H. [40 CFR 63.174(b)(3)(ii)]
Which Months: All Year Statistical Basis: None specified
- 525 [40 CFR 63.174(c)(1)(i)] Connectors in gas/vapor service or light liquid service (opened or otherwise had the seal broken): Presence of a leak monitored by 40 CFR 60, Appendix A, Method 21 within three months after being returned to organic HAP service or when it is reconnected. If monitoring detects a leak, repair according to the provisions of 40 CFR 63.174(d), as specified, except as provided in 40 CFR 63.174(c)(1)(ii). Subpart H. [40 CFR 63.174(c)(1)(i)]
- 526 [40 CFR 63.174(d)] *Which Months: All Year Statistical Basis: None specified*
Connectors in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171 and 63.174(g). Subpart H. [40 CFR 63.174(d)]
- 527 [40 CFR 63.174(f)(1)] Connectors in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the connector is unsafe to monitor because personnel would be exposed to an immediate danger as a result of complying with 40 CFR 63.174(a) through (c). Comply with this requirement instead of the requirements in 40 CFR 63.174(a). Subpart H. [40 CFR 63.174(f)(1)]
- 528 [40 CFR 63.174(f)(2)] Connectors in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of connectors as frequently as practicable during safe to monitor times, but not more frequently than the periodic schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.174(a). Subpart H. [40 CFR 63.174(f)(2)]
Which Months: All Year Statistical Basis: None specified
- 529 [40 CFR 63.174(g)] Connectors in gas/vapor service or light liquid service (unsafe-to-repair): Demonstrate that repair personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.174(d). Comply with this requirement instead of the requirements in 40 CFR 63.174(a), (d), and (e). Subpart H. [40 CFR 63.174(g)]
- 530 [40 CFR 63.174(h)(2)] Connectors in gas/vapor service or light liquid service (inaccessible, ceramic, or ceramic-lined): Make a first attempt at repair within 5 days after leak is detected by visual, audible, olfactory or other means, and complete repairs no later than 15 calendar days after leak is detected, except as provided in 40 CFR 63.171 and 63.174(g). Comply with this requirement instead of the monitoring requirements of 40 CFR 63.174(a) and (c) and from the recordkeeping and reporting requirements of 40 CFR 63.181 and 63.182. Subpart H. [40 CFR 63.174(h)(2)]
- 531 [40 CFR 63.174(i)] Connectors in gas/vapor service or light liquid service: Calculate percent leaking connectors as specified in 40 CFR 63.174(i)(1) and (i)(2). Subpart H. [40 CFR 63.174(i)]
- 532 [40 CFR 63.180] Comply with the test methods and procedures requirements provided in 40 CFR 63.180. Subpart H.
- 533 [40 CFR 63.181] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 63.181(a) through (k). Subpart H.
- 534 [40 CFR 63.182(b)] Submit Initial Notification: Due within 90 days after the date of promulgation of the subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(b)(1). Subpart H. [40 CFR 63.182(b)]
- 535 [40 CFR 63.182(b)] Submit application: Due as soon as practicable before the construction or reconstruction is planned to commence (but it need not be sooner than 90 days after the date of promulgation of the subpart that references 40 CFR 63 Subpart H). Submit application for approval of construction or reconstruction required by 40 CFR 63.5(d) in lieu of the Initial Notification. Subpart H. [40 CFR 63.182(b)]

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- 536 [40 CFR 63.182(c)] Submit Notification of Compliance Status: Due within 90 days of the compliance dates specified in the 40 CFR 63 subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(c)(1) through (c)(3). Subpart H. [40 CFR 63.182(c)]
- 537 [40 CFR 63.182(d)] Submit Periodic Reports: Due semiannually starting 6 months after the Notification of Compliance Status, as required in 40 CFR 63.182(c). Include the information specified in 40 CFR 63.182(d)(2) through (d)(4). Subpart H. [40 CFR 63.182(d)]
- 538 [LAC 33:III.504] LAER is achieved by conducting an LDAR program as provided in 40 CFR 63 Subpart H to limit VOC emissions to 2.50 lb/hr.

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- 539 [40 CFR 63.102(a)] Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]
- 540 [40 CFR 63.103(b)(1)] Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]
- 541 [40 CFR 63.103(b)(2)] Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 542 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- 543 [40 CFR 63.103(c)(1)] Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]
- 544 [40 CFR 63.103(c)(2)] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]
- 545 [40 CFR 63.103(c)] Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- 546 [40 CFR 63.162(c)] Identify each piece of equipment in a process unit such that it can be distinguished readily from equipment that is not subject to 40 CFR 63 Subpart H. Subpart H. [40 CFR 63.162(c)]
- 547 [40 CFR 63.162(f)] Clearly identify leaking equipment, for leaking equipment detected as specified in 40 CFR 63.163, 40 CFR 63.164, 40 CFR 63.168, 40 CFR 63.169, and 40 CFR 63.172 through 63.174. The identification may be removed after the equipment is repaired, except for valves or for connectors subject to 40 CFR 63.174(c)(1)(i). The identification on a valve may be removed after it has been monitored as specified in 40 CFR 63.168(f)(3) and 63.175(e)(i)(D), and no leak has been detected during the follow-up monitoring. If electing to comply using the provisions of 40 CFR 63.174(c)(1)(i), the identification on a connector may be removed after it is monitored as specified in 40 CFR 63.174(c)(1)(i) and no leak is detected during that monitoring. Subpart H. [40 CFR 63.162(f)]
- 548 [40 CFR 63.165(a)] Pressure relief device in gas/vapor service: Organic HAP < 500 ppm above background except during pressure releases, as determined by the method specified in 63.180(c). Subpart H. [40 CFR 63.165(a)]
- 549 [40 CFR 63.166] Which Months: All Year Statistical Basis: None specified
- 550 [40 CFR 63.172(f)(1)(ii)] Which Months: All Year Statistical Basis: None specified
- 551 [40 CFR 63.166(b)] Operate the system as specified in 40 CFR 63.166(b). Subpart H.
- 552 [40 CFR 63.172(h)] Closed-vent system (hard-piping): Presence of a leak monitored by visual, audible, and/or olfactory annually. If a leak is detected, initiate repair provisions in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(f)(1)(ii)]
- 553 [40 CFR 63.172(h)] Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant
 Activity Number: PER20070007
 Permit Number: 3063-V0
 Air - Title V Regular Permit Initial

FUG0009 VCM Unit Fugitive Emissions - 2

- 551 [40 CFR 63.172(h)] Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.172(i). Subpart H. [40 CFR 63.172(h)]
- 552 [40 CFR 63.174(c)(2)(ii)] Connectors in gas/vapor service or light liquid service (2 inches or less in nominal diameter): Organic HAP monitored by technically sound method within three months after being returned to organic HAP service after having been opened or otherwise had the seal broken. If monitoring detects a leak, implement repair provisions in 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(c)(2)(ii)]
- 553 [40 CFR 63.180] Which Months: All Year Statistical Basis: None specified
- 554 [40 CFR 63.181] Comply with the test methods and procedures requirements provided in 40 CFR 63.180. Subpart H. Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 63.181(a) through (k). Subpart H.
- 555 [40 CFR 63.182(b)] Submit Initial Notification: Due within 90 days after the date of promulgation of the subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(b)(1). Subpart H. [40 CFR 63.182(b)]
- 556 [40 CFR 63.182(b)] Submit application: Due as soon as practicable before the construction or reconstruction is planned to commence (but it need not be sooner than 90 days after the date of promulgation of the subpart that references 40 CFR 63 Subpart H). Submit application for approval of construction or reconstruction required by 40 CFR 63.5(d) in lieu of the Initial Notification. Subpart H. [40 CFR 63.182(b)]
- 557 [40 CFR 63.182(c)] Submit Notification of Compliance Status: Due within 90 days of the compliance dates specified in the 40 CFR 63 subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(c)(1) through (c)(3). Subpart H. [40 CFR 63.182(c)]
- 558 [40 CFR 63.182(d)] Submit Periodic Reports: Due semiannually starting 6 months after the Notification of Compliance Status, as required in 40 CFR 63.182(c). Include the information specified in 40 CFR 63.182(d)(2) through (d)(4). Subpart H. [40 CFR 63.182(d)]
- 559 [LAC 33:III.504] LAER is achieved by conducting an LDAR program as provided in 40 CFR 63 Subpart H to limit VOC emissions to 3.42 lb/hr.

FUG0010 VCM Unit Fugitive Emissions - 3

- 560 [40 CFR 63.102(a)] Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]
- 561 [40 CFR 63.103(b)(1)] Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]
- 562 [40 CFR 63.103(b)(2)] Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 563 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- 564 [40 CFR 63.103(c)(1)] Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]
- 565 [40 CFR 63.103(c)(2)] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]
- 566 [40 CFR 63.103(c)] Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

FUG0010 VCM Unit Fugitive Emissions - 3

- 567 [40 CFR 63.162(c)] Identify each piece of equipment in a process unit such that it can be distinguished readily from equipment that is not subject to 40 CFR 63 Subpart H. [40 CFR 63.162(c)]
- 568 [40 CFR 63.162(f)] Clearly identify leaking equipment, for leaking equipment detected as specified in 40 CFR 63.163, 40 CFR 63.164, 40 CFR 63.168, 40 CFR 63.169, and 40 CFR 63.172 through 63.174. The identification may be removed after the equipment is repaired, except for valves or for connectors subject to 40 CFR 63.174(c)(1)(i). The identification on a valve may be removed after it has been monitored as specified in 40 CFR 63.168(f)(3) and 63.175(c)(1)(D), and no leak has been detected during the follow-up monitoring. If electing to comply using the provisions of 40 CFR 63.174(c)(1)(i), the identification on a connector may be removed after it is monitored as specified in 40 CFR 63.174(c)(1)(i) and no leak is detected during that monitoring. Subpart H. [40 CFR 63.162(f)]
- 569 [40 CFR 63.165(a)] Pressure relief device in gas/vapor service: Organic HAP < 500 ppm above background except during pressure releases, as determined by the method specified in 63.180(c). Subpart H. [40 CFR 63.165(a)]
- Which Months: All Year Statistical Basis: None specified
- 570 [40 CFR 63.172(h)] Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.172(i). Subpart H. [40 CFR 63.172(h)]
- 571 [40 CFR 63.180] Comply with the test methods and procedures requirements provided in 40 CFR 63.180. Subpart H.
- 572 [40 CFR 63.181] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 63.181(a) through (k). Subpart H.
- 573 [40 CFR 63.182(b)] Submit Initial Notification: Due within 90 days after the date of promulgation of the subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(b)(1). Subpart H. [40 CFR 63.182(b)]
- 574 [40 CFR 63.182(b)] Submit application: Due as soon as practicable before the construction or reconstruction is planned to commence (but it need not be sooner than 90 days after the date of promulgation of the subpart that references 40 CFR 63 Subpart H). Submit application for approval of construction or reconstruction required by 40 CFR 63.5(c) in lieu of the Initial Notification. Subpart H. [40 CFR 63.182(b)]
- 575 [40 CFR 63.182(c)] Submit Notification of Compliance Status: Due within 90 days of the compliance dates specified in the 40 CFR 63 subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(c)(1) through (c)(3). Subpart H. [40 CFR 63.182(c)]
- 576 [40 CFR 63.182(d)] Submit Periodic Reports: Due semiannually starting 6 months after the Notification of Compliance Status, as required in 40 CFR 63.182(c). Include the information specified in 40 CFR 63.182(d)(2) through (d)(4). Subpart H. [40 CFR 63.182(d)]
- 577 [LAC 33-III.504] LAER is achieved by conducting an LDAR program as provided in 40 CFR 63 Subpart H to limit VOC emissions to 0.39 lb/hr.

RLP0010 Cracking Furnace Initial Quench Process Vents

- 578 [40 CFR 63.102(a)] Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]
- 579 [40 CFR 63.103(b)(1)] Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]
- 580 [40 CFR 63.103(b)(2)] Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 581 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

RLP0010 Cracking Furnace Initial Quench Process Vents

- 582 [40 CFR 63.103(c)(1)] Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]
- 583 [40 CFR 63.103(c)(2)] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]
- 584 [40 CFR 63.103(c)] Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- 585 [40 CFR 63.104(d)] Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- 586 [40 CFR 63.104(f)] Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
- 587 [40 CFR 63.105(d)] Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
- 588 [40 CFR 63.105] Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.
- 589 [40 CFR 63.113(a)(2)] Organic HAP \geq 98 % reduction by weight, or \leq 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]
- 590 [40 CFR 63.113(i)(ii)] Which Months: All Year Statistical Basis: None specified
- 591 [40 CFR 63.113(i)(2)] Notify the transferee that the gas stream contains organic HAPs that are to be treated in accordance with the provisions of 40 CFR 63 Subpart G. Submit notice to the transferee initially and whenever there is a change in the required control. Subpart G. [40 CFR 63.113(i)(1)(ii)]
- 592 [40 CFR 63.114(d)(2)] Do not transfer the gas stream unless the transferee has submitted to the EPA a written certification that the transferee will manage and treat any gas stream transferred under 40 CFR 63.113(i) and received from a source subject to the requirements of 40 CFR 63 Subpart G in accordance with the requirements of either 40 CFR 63.113 through 118, 40 CFR 63.102(b), or 40 CFR 63 Subpart D if alternative emission limitations have been granted the transferor in accordance with those provisions. Subpart G. [40 CFR 63.113(i)(2)]
- 593 [40 CFR 63.117(a)] Bypass lines: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(d)(2)]
- 594 [LAC 33:III.2115.B] Which Months: All Year Statistical Basis: None specified
- 595 [40 CFR 63.117(a)] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- 596 [LAC 33:III.2115.B] Nonhalogenated hydrocarbon burning: Temperature \geq 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

RLP0010 Cracking Furnace Initial Quench Process Vents

- 595 [LAC 33:III.2115.C] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
Which Months: All Year Statistical Basis: None specified
- 596 [LAC 33:III.2115.D] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
Which Months: All Year Statistical Basis: None specified
VOC, Total <= 0.12 kg/1000 kg of product from the material recovery section.
Which Months: All Year Statistical Basis: None specified
- 597 [LAC 33:III.2115.E] Halogenated hydrocarbons, total >= 95 % removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ.
Which Months: All Year Statistical Basis: None specified
- 599 [LAC 33:III.2115.I] Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate.
- 600 [LAC 33:III.2115.J.1] Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.
- 601 [LAC 33:III.2115.J.2] Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.
- 602 [LAC 33:III.2115.J] Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.
- 603 [LAC 33:III.2115.K] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

RLP0011 Cracking Furnace Initial Quench Process Vents

- 604 [40 CFR 63.102(a)] Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]
- 605 [40 CFR 63.103(b)(1)] Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]
- 606 [40 CFR 63.103(b)(2)] Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 607 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- 608 [40 CFR 63.103(c)(1)] Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

RLP0011 Cracking Furnace Initial Quench Process Vents

- 609 [40 CFR 63.103(c)(2)] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]
 - 610 [40 CFR 63.103(c)] Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
 - 611 [40 CFR 63.104(d)] Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
 - 612 [40 CFR 63.104(f)] Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
 - 613 [40 CFR 63.105(d)] Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
 - 614 [40 CFR 63.105] Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.
 - 615 [40 CFR 63.113(a)(2)] Organic HAP >= 98 % reduction by weight, or <= 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]
 - 616 [40 CFR 63.113(i)(1)(ii)] Which Months: All Year Statistical Basis: None specified
 - 617 [40 CFR 63.113(i)(2)] Notify the transferee that the gas stream contains organic HAPs that are to be treated in accordance with the provisions of 40 CFR 63 Subpart G. Submit notice to the transferee initially and whenever there is a change in the required control. Subpart G. [40 CFR 63.113(i)(1)(ii)]
 - 618 [40 CFR 63.114(d)(2)] Do not transfer the gas stream unless the transferee has submitted to the EPA a written certification that the transferee will manage and treat any gas stream transferred under 40 CFR 63.113(i) and received from a source subject to the requirements of 40 CFR 63 Subpart G in accordance with the requirements of either 40 CFR 63.113 through 118, 40 CFR 63.102(b), or 40 CFR 63 Subpart D if alternative emission limitations have been granted the transferor in accordance with those provisions. Subpart G. [40 CFR 63.113(i)(2)]
 - 619 [40 CFR 63.117(a)] Bypass lines: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(d)(2)]
 - 620 [LAC 33:III.2115.B] Which Months: All Year Statistical Basis: None specified
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

RLP0011 Cracking Furnace Initial Quench Process Vents

- 621 [LAC 33:III.2115.C] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
Which Months: All Year Statistical Basis: None specified
- 622 [LAC 33:III.2115.D] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
Which Months: All Year Statistical Basis: None specified
- 623 [LAC 33:III.2115.E] VOC, Total <= 0.12 kg/1000 kg of product from the material recovery section.
Which Months: All Year Statistical Basis: None specified
- 624 [LAC 33:III.2115.F] Halogenated hydrocarbons, total >= 95 % removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ.
Which Months: All Year Statistical Basis: None specified
- 625 [LAC 33:III.2115.I] Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate.
- 626 [LAC 33:III.2115.J.1] Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.
- 627 [LAC 33:III.2115.J.2] Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.
- 628 [LAC 33:III.2115.J] Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.
- 629 [LAC 33:III.2115.K] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

RLP0012 Cracking Furnace Initial Quench Process Vents

- 630 [40 CFR 63.102(a)] Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]
- 631 [40 CFR 63.103(b)(1)] Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]
- 632 [40 CFR 63.103(b)(2)] Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 633 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- 634 [40 CFR 63.103(c)(1)] Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

RLP0012 Cracking Furnace Initial Quench Process Vents

635 [40 CFR 63.103(c)(2)]

Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]

636 [40 CFR 63.103(c)]

Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]

637 [40 CFR 63.104(d)]

Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]

638 [40 CFR 63.104(f)]

Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(1)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]

639 [40 CFR 63.105(d)]

Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]

640 [40 CFR 63.105]

Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.

641 [40 CFR 63.113(a)(2)]

Organic HAP \geq 98 % reduction by weight, or \leq 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]

642 [40 CFR 63.113(i)(1)(ii)]

Which Months: All Year Statistical Basis: None specified
Notify the transferee that the gas stream contains organic HAPs that are to be treated in accordance with the provisions of 40 CFR 63 Subpart G. Submit notice to the transferee initially and whenever there is a change in the required control. Subpart G. [40 CFR 63.113(i)(1)(ii)]

643 [40 CFR 63.113(i)(2)]

Do not transfer the gas stream unless the transferee has submitted to the EPA a written certification that the transferee will manage and treat any gas stream transferred under 40 CFR 63.113(i) and received from a source subject to the requirements of 40 CFR 63 Subpart G in accordance with the requirements of either 40 CFR 63.113 through 118, 40 CFR 63.102(b), or 40 CFR 63 Subpart D if alternative emission limitations have been granted the transferor in accordance with those provisions. Subpart G. [40 CFR 63.113(i)(2)]

644 [40 CFR 63.114(d)(2)]

Bypass lines: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(d)(2)]

645 [40 CFR 63.117(a)]

Which Months: All Year Statistical Basis: None specified
Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]

646 [LAC 33:III.2115.B]

Nonhalogenated hydrocarbon burning: Temperature \geq 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

RLP0012 Cracking Furnace Initial Quench Process Vents

- 647 [LAC 33:III.2115.C] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent. Which Months: All Year. Statistical Basis: None specified
- 648 [LAC 33:III.2115.D] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent. Which Months: All Year. Statistical Basis: None specified
- 649 [LAC 33:III.2115.E] VOC, Total <= 0.12 kg/1000 kg of product from the material recovery section. Which Months: All Year. Statistical Basis: None specified
- 650 [LAC 33:III.2115.F] Halogenated hydrocarbons, total >= 95 % removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ. Which Months: All Year. Statistical Basis: None specified
- 651 [LAC 33:III.2115.I] Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate.
- 652 [LAC 33:III.2115.J.1] Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.
- 653 [LAC 33:III.2115.J.2] Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.
- 654 [LAC 33:III.2115.J] Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.
- 655 [LAC 33:III.2115.K] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records, specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

RLP0013 Cracking Furnace Initial Quench Process Vents

- 656 [40 CFR 63.102(a)] Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]
- 657 [40 CFR 63.103(b)(1)] Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]
- 658 [40 CFR 63.103(b)(2)] Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 659 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- 660 [40 CFR 63.103(c)(1)] Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

RLP0013 Cracking Furnace Initial Quench Process Vents

- 661 [40 CFR 63.103(c)(2)] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]
- 662 [40 CFR 63.103(c)] Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- 663 [40 CFR 63.104(d)] Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- 664 [40 CFR 63.104(f)] Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(1)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
- 665 [40 CFR 63.105(d)] Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
- 666 [40 CFR 63.105] Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.
- 667 [40 CFR 63.113(a)(2)] Organic HAP >= 98 % reduction by weight, or <= 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]
- 668 [40 CFR 63.113(i)(1)(ii)] Which Months: All Year Statistical Basis: None specified
Notify the transferee that the gas stream contains organic HAPs that are to be treated in accordance with the provisions of 40 CFR 63 Subpart G. Submit notice to the transferee initially and whenever there is a change in the required control. Subpart G. [40 CFR 63.113(i)(1)(ii)]
- 669 [40 CFR 63.113(i)(2)] Do not transfer the gas stream unless the transferee has submitted to the EPA a written certification that the transferee will manage and treat any gas stream transferred under 40 CFR 63.113(i) and received from a source subject to the requirements of 40 CFR 63 Subpart G in accordance with the requirements of either 40 CFR 63.113 through 118, 40 CFR 63.102(b), or 40 CFR 63 Subpart D if alternative emission limitations have been granted the transferor in accordance with those provisions. Subpart G. [40 CFR 63.113(i)(2)]
- 670 [40 CFR 63.114(d)(2)] Bypass lines: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(d)(2)]
- 671 [40 CFR 63.117(a)] Which Months: All Year Statistical Basis: None specified
Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- 672 [LAC 33:III.2115.B] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

RLP0013 Cracking Furnace Initial Quench Process Vents

- 673 [LAC 33:III.2115.C] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
Which Months: All Year Statistical Basis: None specified
- 674 [LAC 33:III.2115.D] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
Which Months: All Year Statistical Basis: None specified
- 675 [LAC 33:III.2115.E] VOC, Total <= 0.12 kg/1000 kg of product from the material recovery section.
Which Months: All Year Statistical Basis: None specified
- 676 [LAC 33:III.2115.F] Halogenated hydrocarbons, total >= 95 % removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ.
Which Months: All Year Statistical Basis: None specified
- 677 [LAC 33:III.2115.J] Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate.
- 678 [LAC 33:III.2115.J.1] Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.
- 679 [LAC 33:III.2115.J.2] Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.
- 680 [LAC 33:III.2115.J] Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.
- 681 [LAC 33:III.2115.K] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

RLP0014 OHC Reactor Initial Quench Process Vents

- 682 [40 CFR 63.102(a)] Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]
- 683 [40 CFR 63.103(b)(1)] Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]
- 684 [40 CFR 63.103(b)(2)] Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 685 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- 686 [40 CFR 63.103(c)(1)] Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

RLP0014 OHC Reactor Initial Quench Process Vents

- 687 [40 CFR 63.103(c)(2)] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]
- 688 [40 CFR 63.103(c)] Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- 689 [40 CFR 63.104(d)] Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- 690 [40 CFR 63.104(f)] Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(1)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
- 691 [40 CFR 63.105(d)] Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
- 692 [40 CFR 63.105] Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.
- 693 [40 CFR 63.113(a)(2)] Organic HAP >= 98 % reduction by weight, or <= 20 ppbv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]
- 694 [40 CFR 63.113(i)(1)(ii)] Which Months: All Year Statistical Basis: None specified
- 695 [40 CFR 63.113(i)(2)] Notify the transferee that the gas stream contains organic HAPs that are to be treated in accordance with the provisions of 40 CFR 63 Subpart G. Submit notice to the transferee initially and whenever there is a change in the required control. Subpart G. [40 CFR 63.113(i)(1)(ii)]
- 696 [40 CFR 63.114(d)(2)] Do not transfer the gas stream unless the transferee has submitted to the EPA a written certification that the transferee will manage and treat any gas stream transferred under 40 CFR 63.113(i) and received from a source subject to the requirements of 40 CFR 63 Subpart G in accordance with the requirements of either 40 CFR 63.113 through 118, 40 CFR 63.102(b), or 40 CFR 63 Subpart D if alternative emission limitations have been granted the transferor in accordance with those provisions. Subpart G. [40 CFR 63.113(i)(2)]
- 697 [40 CFR 63.117(a)] Bypass lines: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(d)(2)]
- 698 [LAC 33:III.2115.B] Which Months: All Year Statistical Basis: None specified
- 699 [40 CFR 63.117(a)] Which Months: All Year Statistical Basis: None specified
- 700 [LAC 33:III.2115.B] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- 701 [LAC 33:III.2115.B] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
- 702 [LAC 33:III.2115.B] Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant
Activity Number: PER20070007
Permit Number: 3063-V0
Air - Title V Regular Permit Initial

RLP0014 OHC Reactor Initial Quench Process Vents

- 699 [LAC 33:III.2115.C] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent. Which Months: All Year Statistical Basis: None specified
- 700 [LAC 33:III.2115.D] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent. Which Months: All Year Statistical Basis: None specified
- 701 [LAC 33:III.2115.E] VOC, Total <= 0.12 kg/1000 kg of product from the material recovery section. Which Months: All Year Statistical Basis: None specified
- 702 [LAC 33:III.2115.F] Halogenated hydrocarbons, total >= 95 % removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ. Which Months: All Year Statistical Basis: None specified
- 703 [LAC 33:III.2115.I] Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate.
- 704 [LAC 33:III.2115.J.1] Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.
- 705 [LAC 33:III.2115.J.2] Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.
- 706 [LAC 33:III.2115.J] Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.
- 707 [LAC 33:III.2115.K] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

RLP0015 OHC Reactor Initial Quench Process Vents

- 708 [40 CFR 63.102(a)] Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]
- 709 [40 CFR 63.103(b)(1)] Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]
- 710 [40 CFR 63.103(b)(2)] Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 711 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- 712 [40 CFR 63.103(c)(1)] Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

RLP0015 OHC Reactor Initial Quench Process Vents

- 713 [40 CFR 63.103(c)(2)] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]
- 714 [40 CFR 63.103(c)] Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- 715 [40 CFR 63.104(d)] Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- 716 [40 CFR 63.104(f)] Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
- 717 [40 CFR 63.105(d)] Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
- 718 [40 CFR 63.105] Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.
- 719 [40 CFR 63.113(a)(2)] Organic HAP \geq 98 % reduction by weight, or \leq 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]
- 720 [40 CFR 63.113(i)(1)(ii)] Which Months: All Year Statistical Basis: None specified
Notify the transferee that the gas stream contains organic HAPs that are to be treated in accordance with the provisions of 40 CFR 63 Subpart G. Subpart G. [40 CFR 63.113(i)(1)(ii)]
- 721 [40 CFR 63.113(i)(2)] Submit notice to the transferee initially and whenever there is a change in the required control. Subpart G. [40 CFR 63.113(i)(1)(ii)]
Do not transfer the gas stream unless the transferee has submitted to the EPA a written certification that the transferee will manage and treat any gas stream transferred under 40 CFR 63.113(i) and received from a source subject to the requirements of 40 CFR 63 Subpart G in accordance with the requirements of either 40 CFR 63.113 through 118, 40 CFR 63.102(b), or 40 CFR 63 Subpart D if alternative emission limitations have been granted the transferor in accordance with those provisions. Subpart G. [40 CFR 63.113(i)(2)]
- 722 [40 CFR 63.114(d)(2)] Bypass lines: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(d)(2)]
- 723 [40 CFR 63.117(a)] Which Months: All Year Statistical Basis: None specified
Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- 724 [LAC 33:III.2115.B] Nonhalogenated hydrocarbon burning: Temperature \geq 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

RLP0015 OHC Reactor Initial Quench Process Vents

- 725 [LAC 33:III.2115.C] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
Which Months: All Year. Statistical Basis: None specified
- 726 [LAC 33:III.2115.D] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
Which Months: All Year. Statistical Basis: None specified
- 727 [LAC 33:III.2115.E] VOC, Total <= 0.12 kg/1000 kg of product from the material recovery section.
Which Months: All Year. Statistical Basis: None specified
- 728 [LAC 33:III.2115.F] Halogenated hydrocarbons, total >= 95 % removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ.
Which Months: All Year. Statistical Basis: None specified
- 729 [LAC 33:III.2115.I] Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.1.1 through 5, as appropriate.
- 730 [LAC 33:III.2115.J.1] Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.
- 731 [LAC 33:III.2115.J.2] Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.
- 732 [LAC 33:III.2115.J] Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.
- 733 [LAC 33:III.2115.K] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

RLP0016 OHC Reactor Initial Quench Process Vents

- 734 [40 CFR 63.102(a)] Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]
- 735 [40 CFR 63.103(b)(1)] Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]
- 736 [40 CFR 63.103(b)(2)] Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 737 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- 738 [40 CFR 63.103(c)(1)] Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

RLP0016 OHC Reactor Initial Quench Process Vents

- 739 [40 CFR 63.103(c)(2)] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]
- 740 [40 CFR 63.103(c)] Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- 741 [40 CFR 63.104(d)] Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- 742 [40 CFR 63.104(f)] Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(1)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
- 743 [40 CFR 63.105(d)] Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
- 744 [40 CFR 63.105] Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.
- 745 [40 CFR 63.113(a)(2)] Organic HAP \geq 98 % reduction by weight, or \leq 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]
- 746 [40 CFR 63.113(i)(1)(ii)] Which Months: All Year Statistical Basis: None specified
Notify the transferee that the gas stream contains organic HAPs that are to be treated in accordance with the provisions of 40 CFR 63 Subpart G. Submit notice to the transferee initially and whenever there is a change in the required control. Subpart G. [40 CFR 63.113(i)(1)(ii)]
- 747 [40 CFR 63.113(i)(2)] Do not transfer the gas stream unless the transferee has submitted to the EPA a written certification that the transferee will manage and treat any gas stream transferred under 40 CFR 63.113(i) and received from a source subject to the requirements of 40 CFR 63 Subpart G in accordance with the requirements of either 40 CFR 63.113 through 118, 40 CFR 63.102(b), or 40 CFR 63 Subpart D if alternative emission limitations have been granted the transferor in accordance with those provisions. Subpart G. [40 CFR 63.113(i)(2)]
- 748 [40 CFR 63.114(d)(2)] Bypass lines: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(d)(2)]
- 749 [40 CFR 63.117(a)] Which Months: All Year Statistical Basis: None specified
Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- 750 [LAC 33:III.2115.B] Nonhalogenated hydrocarbon burning: Temperature \geq 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

RLP0016 OHC Reactor Initial Quench Process Vents

- 751 [LAC 33:III.2115.C] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
Which Months: All Year Statistical Basis: None specified
 - 752 [LAC 33:III.2115.D] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
Which Months: All Year Statistical Basis: None specified
VOC, Total <= 0.12 kg/1000 kg of product from the material recovery section.
 - 753 [LAC 33:III.2115.E] Which Months: All Year Statistical Basis: None specified
 - 754 [LAC 33:III.2115.F] Halogenated hydrocarbons, total >= 95 % removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ.
Which Months: All Year Statistical Basis: None specified
 - 755 [LAC 33:III.2115.I] Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate.
 - 756 [LAC 33:III.2115.J.1] Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.
 - 757 [LAC 33:III.2115.J.2] Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.
 - 758 [LAC 33:III.2115.J] Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.
 - 759 [LAC 33:III.2115.K] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.
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- RLP0017 Vent from 1st Direct Chlorination Reactor**
 - 760 [40 CFR 63.102(a)] Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]
 - 761 [40 CFR 63.103(b)(1)] Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]
 - 762 [40 CFR 63.103(b)(2)] Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
 - 763 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
 - 764 [40 CFR 63.103(c)(1)] Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant
Activity Number: PER20070007
Permit Number: 3063-V0
Air - Title V Regular Permit Initial

RLP0017 Vent from 1st Direct Chlorination Reactor

- 765 [40 CFR 63.103(c)(2)] *Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]*
- 766 [40 CFR 63.103(c)] *Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]*
- 767 [40 CFR 63.104(d)] *Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]*
- 768 [40 CFR 63.104(f)] *Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]*
- 769 [40 CFR 63.105(d)] *Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]*
- 770 [40 CFR 63.105] *Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.*
- 771 [40 CFR 63.113(a)(2)] *Organic HAP >= 98 % reduction by weight, or <= 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]*
- 772 [40 CFR 63.113(i)(1)(ii)] *Which Months: All Year Statistical Basis: None specified*
Notify the transferee that the gas stream contains organic HAPs that are to be treated in accordance with the provisions of 40 CFR 63 Subpart G. Submit notice to the transferee initially and whenever there is a change in the required control. Subpart G. [40 CFR 63.113(i)(1)(ii)]
- 773 [40 CFR 63.113(i)(2)] *Do not transfer the gas stream unless the transferee has submitted to the EPA a written certification that the transferee will manage and treat any gas stream transferred under 40 CFR 63.113(i) and received from a source subject to the requirements of 40 CFR 63 Subpart G in accordance with the requirements of either 40 CFR 63.113 through 118, 40 CFR 63.102(b), or 40 CFR 63 Subpart D if alternative emission limitations have been granted the transferor in accordance with those provisions. Subpart G. [40 CFR 63.113(i)(2)]*
- 774 [40 CFR 63.114(d)(2)] *Bypass lines: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(d)(2)]*
Which Months: All Year Statistical Basis: None specified
- 775 [40 CFR 63.117(a)] *Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]*
- 776 [LAC 33:III.2115.B] *Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.*
Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant
 Activity Number: PER20070007
 Permit Number: 3063-V0
 Air - Title V Regular Permit Initial

RLP0017 Vent from 1st Direct Chlorination Reactor

- 777 [LAC 33:III.2115.C] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent. Which Months: All Year Statistical Basis: None specified
- 778 [LAC 33:III.2115.D] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent. Which Months: All Year Statistical Basis: None specified
- 779 [LAC 33:III.2115.E] VOC, Total <= 0.12 kg/1000 kg of product from the material recovery section. Which Months: All Year Statistical Basis: None specified
- 780 [LAC 33:III.2115.F] Halogenated hydrocarbons, total >= 95 % removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ. Which Months: All Year Statistical Basis: None specified
- 781 [LAC 33:III.2115.I] Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate.
- 782 [LAC 33:III.2115.J.1] Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.
- 783 [LAC 33:III.2115.J.2] Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.
- 784 [LAC 33:III.2115.J] Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.
- 785 [LAC 33:III.2115.K] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

RLP0018 Vent from 2nd Direct Chlorination Reactor

- 786 [40 CFR 63.102(a)] Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]
- 787 [40 CFR 63.103(b)(1)] Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]
- 788 [40 CFR 63.103(b)(2)] Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 789 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- 790 [40 CFR 63.103(c)(1)] Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

RLP0018 Vent from 2nd Direct Chlorination Reactor

- 791 [40 CFR 63.103(c)(2)] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]
- 792 [40 CFR 63.103(c)] Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- 793 [40 CFR 63.104(d)] Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- 794 [40 CFR 63.104(f)] Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(1)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
- 795 [40 CFR 63.105(d)] Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
- 796 [40 CFR 63.105] Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.
- 797 [40 CFR 63.113(a)(2)] Organic HAP >= 98 % reduction by weight, or <= 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]
- 798 [40 CFR 63.113(i)(ii)] Which Months: All Year Statistical Basis: None specified
- 799 [40 CFR 63.113(i)(2)] Notify the transferee that the gas stream contains organic HAPs that are to be treated in accordance with the provisions of 40 CFR 63 Subpart G. Submit notice to the transferee initially and whenever there is a change in the required control. Subpart G. [40 CFR 63.113(i)(ii)]
- 800 [40 CFR 63.114(d)(2)] Do not transfer the gas stream unless the transferee has submitted to the EPA a written certification that the transferee will manage and treat any gas stream transferred under 40 CFR 63.113(i) and received from a source subject to the requirements of 40 CFR 63 Subpart G in accordance with the requirements of either 40 CFR 63.113 through 118, 40 CFR 63.102(b), or 40 CFR 63 Subpart D if alternative emission limitations have been granted the transferor in accordance with those provisions. Subpart G. [40 CFR 63.113(i)(2)]
- 801 [40 CFR 63.117(a)] Bypass lines: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(d)(2)]
- 802 [LAC 33:III.2115.B] Which Months: All Year Statistical Basis: None specified
- 801 [40 CFR 63.117(a)] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- 802 [LAC 33:III.2115.B] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

RLP0018 Vent from 2nd Direct Chlorination Reactor

- 803 [LAC 33:III.2115.C] Nonhalogenated hydrocarbon burning: Temperature \geq 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent. Which Months: All Year Statistical Basis: None specified
- 804 [LAC 33:III.2115.D] Nonhalogenated hydrocarbon burning: Temperature \geq 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent. Which Months: All Year Statistical Basis: None specified
- 805 [LAC 33:III.2115.E] VOC, Total \leq 0.12 kg/1000 kg of product from the material recovery section. Which Months: All Year Statistical Basis: None specified
- 806 [LAC 33:III.2115.F] Halogenated hydrocarbons, total \geq 95 % removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ. Which Months: All Year Statistical Basis: None specified
- 807 [LAC 33:III.2115.I] Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate.
- 808 [LAC 33:III.2115.J.1] Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.
- 809 [LAC 33:III.2115.J.2] Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.
- 810 [LAC 33:III.2115.J] Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.
- 811 [LAC 33:III.2115.K] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

RLP0019 Vent from Direct Chlorination product separator

- 812 [40 CFR 63.102(a)] Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]
- 813 [40 CFR 63.103(b)(1)] Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]
- 814 [40 CFR 63.103(b)(2)] Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 815 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- 816 [40 CFR 63.103(c)(1)] Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

RLP0019 Vent from Direct Chlorination product separator

- 817 [40 CFR 63.103(c)(2)] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]
- 818 [40 CFR 63.103(c)] Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- 819 [40 CFR 63.104(d)] Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- 820 [40 CFR 63.104(f)] Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(1)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
- 821 [40 CFR 63.105(d)] Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
- 822 [40 CFR 63.105] Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.
- 823 [40 CFR 63.113(a)(2)] Organic HAP >= 98 % reduction by weight, or <= 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]
- 824 [40 CFR 63.113(i)(1)(ii)] Which Months: All Year Statistical Basis: None specified
Notify the transferee that the gas stream contains organic HAPs that are to be treated in accordance with the provisions of 40 CFR 63 Subpart G. Submit notice to the transferee initially and whenever there is a change in the required control. Subpart G. [40 CFR 63.113(i)(1)(ii)]
- 825 [40 CFR 63.113(i)(2)] Do not transfer the gas stream unless the transferee has submitted to the EPA a written certification that the transferee will manage and treat any gas stream transferred under 40 CFR 63.113(i) and received from a source subject to the requirements of 40 CFR 63 Subpart G in accordance with the requirements of either 40 CFR 63.113 through 118, 40 CFR 63.102(b), or 40 CFR 63 Subpart D if alternative emission limitations have been granted the transferor in accordance with those provisions. Subpart G. [40 CFR 63.113(i)(2)]
- 826 [40 CFR 63.114(d)(2)] Bypass lines: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(d)(2)]
- 827 [40 CFR 63.117(a)] Which Months: All Year Statistical Basis: None specified
Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- 828 [LAC 33:III.2115.B] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent. Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant
 Activity Number: PER20070007
 Permit Number: 3063-V0
 Air - Title V Regular Permit Initial

RLP0019 Vent from Direct Chlorination product separator

- 829 [LAC 33:III.2115.C] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
 Which Months: All Year Statistical Basis: None specified
- 830 [LAC 33:III.2115.D] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
 Which Months: All Year Statistical Basis: None specified
 VOC, Total <= 0.12 kg/1000 kg of product from the material recovery section.
 Which Months: All Year Statistical Basis: None specified
- 832 [LAC 33:III.2115.F] Halogenated hydrocarbons, total >= 95 % removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ.
 Which Months: All Year Statistical Basis: None specified
- 833 [LAC 33:III.2115.J] Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate.
- 834 [LAC 33:III.2115.J.1] Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.
- 835 [LAC 33:III.2115.J.2] Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.
- 836 [LAC 33:III.2115.J] Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.
- 837 [LAC 33:III.2115.K] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

RLP0026 EDC Purification Drying Column Vent

- 838 [40 CFR 63.102(a)] Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]
- 839 [40 CFR 63.103(b)(1)] Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]
- 840 [40 CFR 63.103(b)(2)] Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 841 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- 842 [40 CFR 63.103(c)(1)] Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

RLP0026 EDC Purification Drying Column Vent

- 843 [40 CFR 63.103(c)(2)] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]
- 844 [40 CFR 63.103(c)] Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- 845 [40 CFR 63.104(d)] Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- 846 [40 CFR 63.104(f)] Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
- 847 [40 CFR 63.105(d)] Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
- 848 [40 CFR 63.105] Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.
- 849 [40 CFR 63.113(a)(2)] Organic HAP >= 98 % reduction by weight, or <= 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]
Which Months: All Year Statistical Basis: None specified
- 850 [40 CFR 63.113(i)(1)(ii)] Notify the transferee that the gas stream contains organic HAPs that are to be treated in accordance with the provisions of 40 CFR 63 Subpart G. Submit notice to the transferee initially and whenever there is a change in the required control. Subpart G. [40 CFR 63.113(i)(1)(ii)]
- 851 [40 CFR 63.113(i)(2)] Do not transfer the gas stream unless the transferee has submitted to the EPA a written certification that the transferee will manage and treat any gas stream transferred under 40 CFR 63.113(i) and received from a source subject to the requirements of 40 CFR 63 Subpart G in accordance with the requirements of either 40 CFR 63.113 through 118, 40 CFR 63.102(b), or 40 CFR 63 Subpart D if alternative emission limitations have been granted the transferor in accordance with those provisions. Subpart G. [40 CFR 63.113(i)(2)]
- 852 [40 CFR 63.114(d)(2)] Bypass lines: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(d)(2)]
Which Months: All Year Statistical Basis: None specified
- 853 [40 CFR 63.117(a)] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- 854 [LAC 33:III.2115.B] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant
 Activity Number: PER20070007
 Permit Number: 3063-V0
 Air - Title V Regular Permit Initial

RLP0026 EDC Purification Drying Column Vent

- 855 [LAC 33:III.2115.C] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
 - Which Months: All Year Statistical Basis: None specified
- 856 [LAC 33:III.2115.D] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
 Which Months: All Year Statistical Basis: None specified
 VOC, Total <= 0.12 kg/1000 kg of product from the material recovery section.
 Which Months: All Year Statistical Basis: None specified
- 857 [LAC 33:III.2115.E] Halogenated hydrocarbons, total >= 95 %-removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ.
 Which Months: All Year Statistical Basis: None specified
- 858 [LAC 33:III.2115.F] Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate.
- 859 [LAC 33:III.2115.I] Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.
- 860 [LAC 33:III.2115.J.1] Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.
- 861 [LAC 33:III.2115.J.2] Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.
- 862 [LAC 33:III.2115.K] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

RLP0027 EDC Purification Lights Column Vent

- 864 [40 CFR 63.102(a)] Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]
- 865 [40 CFR 63.103(b)(1)] Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]
- 866 [40 CFR 63.103(b)(2)] Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 867 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- 868 [40 CFR 63.103(c)(1)] Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

RLP0027 EDC Purification Lights Column Vent

- 869 [40 CFR 63.103(c)(2)] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]
- 870 [40 CFR 63.103(c)] Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- 871 [40 CFR 63.104(d)] Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- 872 [40 CFR 63.104(f)] Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(1)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
- 873 [40 CFR 63.105(d)] Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
- 874 [40 CFR 63.105] Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.
- 875 [40 CFR 63.113(a)(2)] Organic HAP >= 98 % reduction by weight, or <= 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]
- 876 [40 CFR 63.113(i)(1)(ii)] Which Months: All Year Statistical Basis: None specified
Notify the transferee that the gas stream contains organic HAPs that are to be treated in accordance with the provisions of 40 CFR 63 Subpart G. Submit notice to the transferee initially and whenever there is a change in the required control. Subpart G. [40 CFR 63.113(i)(1)(ii)]
- 877 [40 CFR 63.113(i)(2)] Do not transfer the gas stream unless the transferee has submitted to the EPA a written certification that the transferee will manage and treat any gas stream transferred under 40 CFR 63.113(i) and received from a source subject to the requirements of 40 CFR 63 Subpart G in accordance with the requirements of either 40 CFR 63.113 through 118, 40 CFR 63.102(b), or 40 CFR 63 Subpart D if alternative emission limitations have been granted the transferor in accordance with those provisions. Subpart G. [40 CFR 63.113(i)(2)]
- 878 [40 CFR 63.114(d)(2)] Bypass lines: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(d)(2)]
Which Months: All Year Statistical Basis: None specified
- 879 [40 CFR 63.117(a)] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- 880 [LAC 33:III.2115.B] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant
 Activity Number: PER20070007
 Permit Number: 3063-V0
 Air - Title V Regular Permit Initial

RLP0027 EDC Purification Lights Column Vent

- 881 [LAC 33:III.2115.C] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
 Which Months: All Year Statistical Basis: None specified
- 882 [LAC 33:III.2115.D] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
 Which Months: All Year Statistical Basis: None specified
- 883 [LAC 33:III.2115.E] VOC, Total <= 0.12 kg/1000 kg of product from the material recovery section.
 Which Months: All Year Statistical Basis: None specified
- 884 [LAC 33:III.2115.F] Halogenated hydrocarbons, total >= 95 % removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ.
 Which Months: All Year Statistical Basis: None specified
- 885 [LAC 33:III.2115.J] Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate.
- 886 [LAC 33:III.2115.J.1] Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.
- 887 [LAC 33:III.2115.J.2] Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.
- 888 [LAC 33:III.2115.J] Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.
- 889 [LAC 33:III.2115.K] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

RLP0028 EDC Purification Hiboil Column Vent

- 890 [40 CFR 63.102(a)] Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]
- 891 [40 CFR 63.103(b)(1)] Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]
- 892 [40 CFR 63.103(b)(2)] Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 893 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- 894 [40 CFR 63.103(c)(1)] Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

RLP0028 EDC Purification Hiboil Column Vent

- 895 [40 CFR 63.103(c)(2)] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]
- 896 [40 CFR 63.103(c)] Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- 897 [40 CFR 63.104(d)] Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- 898 [40 CFR 63.104(f)] Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(1)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
- 899 [40 CFR 63.105(d)] Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
- 900 [40 CFR 63.105] Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.
- 901 [40 CFR 63.113(a)(2)] Organic HAP >= 98 % reduction by weight, or <= 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]
- 902 [40 CFR 63.113(i)(1)(ii)] Which Months: All Year Statistical Basis: None specified
Notify the transferee that the gas stream contains organic HAPs that are to be treated in accordance with the provisions of 40 CFR 63 Subpart G. Submit notice to the transferee initially and whenever there is a change in the required control. Subpart G. [40 CFR 63.113(i)(1)(ii)]
- 903 [40 CFR 63.113(i)(2)] Do not transfer the gas stream unless the transferee has submitted to the EPA a written certification that the transferee will manage and treat any gas stream transferred under 40 CFR 63.113(i) and received from a source subject to the requirements of 40 CFR 63 Subpart G in accordance with the requirements of either 40 CFR 63.113 through 118, 40 CFR 63.102(b), or 40 CFR 63 Subpart D if alternative emission limitations have been granted the transferor in accordance with those provisions. Subpart G. [40 CFR 63.113(i)(2)]
- 904 [40 CFR 63.114(d)(2)] Bypass lines: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(d)(2)].
Which Months: All Year Statistical Basis: None specified
- 905 [40 CFR 63.117(a)] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)].
- 906 [LAC 33:III.2.115.B] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2.115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

RLP0028 EDC Purification Hiboil Column Vent

- 907 [LAC 33:III.2115.C] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
Which Months: All Year Statistical Basis: None specified
- 908 [LAC 33:III.2115.D] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
Which Months: All Year Statistical Basis: None specified
VOC, Total <= 0.12 kg/1000 kg of product from the material recovery section.
Which Months: All Year Statistical Basis: None specified
- 910 [LAC 33:III.2115.F] Halogenated hydrocarbons, total >= 95 % removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ.
Which Months: All Year Statistical Basis: None specified
- 911 [LAC 33:III.2115.I] Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.1.1 through 5, as appropriate.
- 912 [LAC 33:III.2115.J.1] Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.
- 913 [LAC 33:III.2115.J.2] Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.
- 914 [LAC 33:III.2115.J] Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.
- 915 [LAC 33:III.2115.K] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

RLP0029 EDC Purification Vacuum Column Vent

- 916 [40 CFR 63.102(a)] Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]
- 917 [40 CFR 63.103(b)(1)] Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]
- 918 [40 CFR 63.103(b)(2)] Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 919 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- 920 [40 CFR 63.103(c)(1)] Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

RLP0029 EDC Purification Vacuum Column Vent

- 921 [40 CFR 63.103(c)(2)] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]
- 922 [40 CFR 63.103(c)] Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- 923 [40 CFR 63.104(d)] Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- 924 [40 CFR 63.104(f)] Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
- 925 [40 CFR 63.105(d)] Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
- 926 [40 CFR 63.105] Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.
- 927 [40 CFR 63.113(a)(2)] Organic HAP \geq 98 % reduction by weight, or \leq 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]
- 928 [40 CFR 63.113(i)(1)(ii)] Which Months: All Year Statistical Basis: None specified
Notify the transferee that the gas stream contains organic HAPs that are to be treated in accordance with the provisions of 40 CFR 63 Subpart G. Submit notice to the transferee initially and whenever there is a change in the required control. Subpart G. [40 CFR 63.113(i)(1)(ii)]
- 929 [40 CFR 63.113(i)(2)] Do not transfer the gas stream unless the transferee has submitted to the EPA a written certification that the transferee will manage and treat any gas stream transferred under 40 CFR 63.113(i) and received from a source subject to the requirements of 40 CFR 63 Subpart G in accordance with the requirements of either 40 CFR 63.113 through 118, 40 CFR 63.102(b), or 40 CFR 63 Subpart D if alternative emission limitations have been granted the transferor in accordance with those provisions. Subpart G. [40 CFR 63.113(i)(2)]
- 930 [40 CFR 63.114(d)(2)] Bypass lines: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(d)(2)]
Which Months: All Year Statistical Basis: None specified
- 931 [40 CFR 63.117(a)] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- 932 [LAC 33:III.2115.B] Nonhalogenated hydrocarbon burning: Temperature \geq 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

RLP0029 EDC Purification Vacuum Column Vent

- 933 [LAC 33:III.2115.C] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent. Which Months: All Year Statistical Basis: None specified
- 934 [LAC 33:III.2115.D] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent. Which Months: All Year Statistical Basis: None specified
- 935 [LAC 33:III.2115.E] VOC, Total <= 0.12 kg/1000 kg of product from the material recovery section. Which Months: All Year Statistical Basis: None specified
- 936 [LAC 33:III.2115.F] Halogenated hydrocarbons, total >= 95 % removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ. Which Months: All Year Statistical Basis: None specified
- 937 [LAC 33:III.2115.I] Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate.
- 938 [LAC 33:III.2115.J.1] Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.
- 939 [LAC 33:III.2115.J.2] Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.
- 940 [LAC 33:III.2115.J] Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.
- 941 [LAC 33:III.2115.K] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

RLP0030 EDC Purification Clean-up Column Vent

- 942 [40 CFR 63.102(a)] Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]
- 943 [40 CFR 63.103(b)(1)] Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]
- 944 [40 CFR 63.103(b)(2)] Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 945 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(c) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- 946 [40 CFR 63.103(c)(1)] Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

RLP0030 EDC Purification Clean-up Column Vent

- 947 [40 CFR 63.103(c)(2)] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]
- 948 [40 CFR 63.103(c)] Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- 949 [40 CFR 63.104(d)] Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- 950 [40 CFR 63.104(f)] Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(1)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
- 951 [40 CFR 63.105(d)] Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
- 952 [40 CFR 63.105] Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.
- 953 [40 CFR 63.113(a)(2)] Organic HAP \geq 98 % reduction by weight, or \leq 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]
- 954 [40 CFR 63.113(i)(1)(ii)] Which Months: All Year Statistical Basis: None specified
Notify the transferee that the gas stream contains organic HAPs that are to be treated in accordance with the provisions of 40 CFR 63 Subpart G. Submit notice to the transferee initially and whenever there is a change in the required control. Subpart G. [40 CFR 63.113(i)(1)(ii)]
- 955 [40 CFR 63.113(i)(2)] Do not transfer the gas stream unless the transferee has submitted to the EPA a written certification that the transferee will manage and treat any gas stream transferred under 40 CFR 63.113(i) and received from a source subject to the requirements of 40 CFR 63 Subpart G in accordance with the requirements of either 40 CFR 63.113 through 118, 40 CFR 63.102(b), or 40 CFR 63 Subpart D if alternative emission limitations have been granted the transferor in accordance with those provisions. Subpart G. [40 CFR 63.113(i)(2)]
- 956 [40 CFR 63.114(d)(2)] Bypass lines: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(d)(2)]
- 957 [40 CFR 63.117(a)] Which Months: All Year Statistical Basis: None specified
Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- 958 [LAC 33:III.2115.B] Nonhalogenated hydrocarbon burning: Temperature \geq 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

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RLP0030 EDC Purification Clean-up Column Vent

- 959 [LAC 33:III.2115.C] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
Which Months: All Year Statistical Basis: None specified
- 960 [LAC 33:III.2115.D] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
Which Months: All Year Statistical Basis: None specified
VOC, Total <= 0.12 kg/1000 kg of product from the material recovery section.
Which Months: All Year Statistical Basis: None specified
- 961 [LAC 33:III.2115.E] Halogenated hydrocarbons, total >= 95 % removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ.
Which Months: All Year Statistical Basis: None specified
- 962 [LAC 33:III.2115.F] Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate.
- 963 [LAC 33:III.2115.I] Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.
- 964 [LAC 33:III.2115.J.1] Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.
- 965 [LAC 33:III.2115.J.2] Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.
- 966 [LAC 33:III.2115.J] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.
- 967 [LAC 33:III.2115.K]

RLP0032 1st Misc. Wastewater stripper Vent

- 968 [40 CFR 63.102(a)] Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]
- 969 [40 CFR 63.103(b)(1)] Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]
- 970 [40 CFR 63.103(b)(2)] Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 971 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- 972 [40 CFR 63.103(c)(1)] Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

RLP0032 1st Misc. Wastewater stripper Vent

- 973 [40 CFR 63.103(c)(2)] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]
- 974 [40 CFR 63.103(c)] Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- 975 [40 CFR 63.104(d)] Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- 976 [40 CFR 63.104(f)] Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
- 977 [40 CFR 63.105(d)] Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
- 978 [40 CFR 63.105(e)] Maintenance wastewater: Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Maintain a record of the information required by 40 CFR 63.105(b) and (c) as part of the start-up, shut-down, and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(e)]
- 979 [40 CFR 63.105] Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.
- 980 [LAC 33-III.2115.F] Halogenated hydrocarbons, total >= 95 % removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ.
- 981 [LAC 33-III.2115.J] Which Months: All Year Statistical Basis: None specified Determine compliance with LAC 33-III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate.
- 982 [LAC 33-III.2115.J.1] Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.
- 983 [LAC 33-III.2115.J.2] Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.
- 984 [LAC 33-III.2115.J] Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.
- 985 [LAC 33-III.2115.K] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

RLP0033 2nd Misc. Wastewater stripper Vent

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant
 Activity Number: PER20070007
 Permit Number: 3063-V0
 Air - Title V Regular Permit Initial

RLP0033 2nd Misc. Wastewater stripper Vent

- 986 [40 CFR 63.102(a)] Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]
- 987 [40 CFR 63.103(b)(1)] Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]
- 988 [40 CFR 63.103(b)(2)] Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 989 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- 990 [40 CFR 63.103(c)(1)] Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]
- 991 [40 CFR 63.103(c)(2)] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]
- 992 [40 CFR 63.103(c)] Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- 993 [40 CFR 63.104(d)] Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- 994 [40 CFR 63.104(f)] Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
- 995 [40 CFR 63.105(d)] Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
- 996 [40 CFR 63.105(e)] Maintenance wastewater: Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Maintain a record of the information required by 40 CFR 63.105(b) and (c) as part of the start-up, shut-down, and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(e)]
- 997 [40 CFR 63.105] Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.
- 998 [LAC 33:III.2115.F] Halogenated hydrocarbons, total >= 95 % removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ. Which Months: All Year Statistical Basis: None specified
- 999 [LAC 33:III.2115.I] Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate.
- 1000 [LAC 33:III.2115.J.1] Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

RLP0033 2nd Misc. Wastewater stripper Vent

- 1001 [LAC 33:III.2115.J.2] Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.
- 1002 [LAC 33:III.2115.J] Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.
- 1003 [LAC 33:III.2115.K] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

RLP0036 OHC Train CO2 Stripper Process Vents

- 1004 [40 CFR 63.102(a)] Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]
- 1005 [40 CFR 63.103(b)(1)] Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]
- 1006 [40 CFR 63.103(b)(2)] Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 1007 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- 1008 [40 CFR 63.103(c)(1)] Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]
- 1009 [40 CFR 63.103(c)(2)] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]
- 1010 [40 CFR 63.103(c)] Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- 1011 [40 CFR 63.104(d)] Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- 1012 [40 CFR 63.104(f)] Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
- 1013 [40 CFR 63.105(d)] Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
- 1014 [40 CFR 63.105] Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

RLP0036 OHC Train CO2 Stripper Process Vents

- 1015 [40 CFR 63.113(a)(2)] Organic HAP >= 98 % reduction by weight, or <= 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c).
Subpart G. [40 CFR 63.113(a)(2)]
- 1016 [40 CFR 63.113(i)(1)(ii)] Which Months: All Year Statistical Basis: None specified
Notify the transferee that the gas stream contains organic HAPs that are to be treated in accordance with the provisions of 40 CFR 63 Subpart G. Submit notice to the transferee initially and whenever there is a change in the required control. Subpart G. [40 CFR 63.113(i)(1)(ii)]
- 1017 [40 CFR 63.113(i)(2)] Do not transfer the gas stream unless the transferee has submitted to the EPA a written certification that the transferee will manage and treat any gas stream transferred under 40 CFR 63.113(i) and received from a source subject to the requirements of 40 CFR 63 Subpart G in accordance with the requirements of either 40 CFR 63.113 through 118, 40 CFR 63.102(b), or 40 CFR 63 Subpart D if alternative emission limitations have been granted the transferor in accordance with those provisions. Subpart G. [40 CFR 63.113(i)(2)]
- 1018 [40 CFR 63.114(d)(2)] Bypass lines: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(d)(2)]
- 1019 [40 CFR 63.117(a)] Which Months: All Year Statistical Basis: None specified
Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- 1020 [LAC 33:III.2115.B] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
Which Months: All Year Statistical Basis: None specified
- 1021 [LAC 33:III.2115.C] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
Which Months: All Year Statistical Basis: None specified
- 1022 [LAC 33:III.2115.D] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
Which Months: All Year Statistical Basis: None specified
- 1023 [LAC 33:III.2115.E] VOC Total <= 0.12 kg/1000 kg of product from the material recovery section.
- 1024 [LAC 33:III.2115.F] Which Months: All Year Statistical Basis: None specified
Halogenated hydrocarbons, total >= 95 % removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ.
Which Months: All Year Statistical Basis: None specified
- 1025 [LAC 33:III.2115.I] Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate.
- 1026 [LAC 33:III.2115.J.1] Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.
- 1027 [LAC 33:III.2115.J.2] Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Pilaqueline PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

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RLP0036 OHC Train CO2 Stripper Process Vents

1028 [LAC 33:III.2115.J]

Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.

1029 [LAC 33:III.2115.K]

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

RLP0037 OHC Train CO2 Stripper Process Vents

1030 [40 CFR 63.102(a)]

Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]

1031 [40 CFR 63.103(b)(1)]

Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]

1032 [40 CFR 63.103(b)(2)]

Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a

1033 [40 CFR 63.103(b)(3)]

performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]

1034 [40 CFR 63.103(c)(1)]

Conduct performance tests according to the provisions in 40 CFR 63.7(c) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]

1035 [40 CFR 63.103(c)(2)]

Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]

1036 [40 CFR 63.103(c)]

Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]

1037 [40 CFR 63.104(d)]

Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]

1038 [40 CFR 63.104(f)]

Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]

1039 [40 CFR 63.105(d)]

Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(1)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]

1040 [40 CFR 63.105]

Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]

Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.

1041 [40 CFR 63.113(a)(2)]

Organic HAP >= 98 % reduction by weight, or <= 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]

Which Months: All Year Statistical Basis: None specified

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AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

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RLP0037 OHC Train CO2 Stripper Process Vents

- 1042 [40 CFR 63.113(i)(1)(ii)] Notify the transferee that the gas stream contains organic HAPs that are to be treated in accordance with the provisions of 40 CFR 63 Subpart G. Submit notice to the transferee initially and whenever there is a change in the required control. Subpart G. [40 CFR 63.113(i)(1)(ii)]
- 1043 [40 CFR 63.113(i)(2)] Do not transfer the gas stream unless the transferee has submitted to the EPA a written certification that the transferee will manage and treat any gas stream transferred under 40 CFR 63.113(i) and received from a source subject to the requirements of 40 CFR 63 Subpart G in accordance with the requirements of either 40 CFR 63.102(b), or 40 CFR 63.102(b), or 40 CFR 63 Subpart D if alternative emission limitations have been granted the transferor in accordance with those provisions. Subpart G. [40 CFR 63.113(i)(2)]
- 1044 [40 CFR 63.114(d)(2)] Bypass lines: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(d)(2)]
Which Months: All Year Statistical Basis: None specified
- 1045 [40 CFR 63.117(a)] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- 1046 [LAC 33:III.2115.B] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
Which Months: All Year Statistical Basis: None specified
- 1047 [LAC 33:III.2115.C] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
Which Months: All Year Statistical Basis: None specified
- 1048 [LAC 33:III.2115.D] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
Which Months: All Year Statistical Basis: None specified
- 1049 [LAC 33:III.2115.E] VOC, Total <= 0.12 kg/1000 kg of product from the material recovery section.
Which Months: All Year Statistical Basis: None specified
- 1050 [LAC 33:III.2115.F] Halogenated hydrocarbons, total >= 95 % removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ.
Which Months: All Year Statistical Basis: None specified
- 1051 [LAC 33:III.2115.I] Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate.
- 1052 [LAC 33:III.2115.J.1] Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.
- 1053 [LAC 33:III.2115.J.2] Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.
- 1054 [LAC 33:III.2115.J] Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.

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RLP0037 OHC Train CO2 Stripper Process Vents

1055 [LAC 33:III.2115.K] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115 K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

RLP0038 DC Reactor Process Vent

- 1056 [40 CFR 63.102(a)] Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]
- 1057 [40 CFR 63.103(b)(1)] Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]
- 1058 [40 CFR 63.103(b)(2)] Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 1059 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(c) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- 1060 [40 CFR 63.103(c)(1)] Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]
- 1061 [40 CFR 63.103(c)(2)] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]
- 1062 [40 CFR 63.103(c)] Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- 1063 [40 CFR 63.104(d)] Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- 1064 [40 CFR 63.104(f)] Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
- 1065 [40 CFR 63.105(d)] Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
- 1066 [40 CFR 63.105] Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.
- 1067 [40 CFR 63.113(a)(2)] Organic HAP >= 98 % reduction by weight, or <= 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]
 Which Months: All Year Statistical Basis: None specified
- 1068 [40 CFR 63.113(i)(1)(ii)] Notify the transferee that the gas stream contains organic HAPs that are to be treated in accordance with the provisions of 40 CFR 63 Subpart G. Submit notice to the transferee initially and whenever there is a change in the required control. Subpart G. [40 CFR 63.113(i)(1)(ii)]

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

RLP0038 DC Reactor Process Vent

- 1069 [40 CFR 63.113(i)(2)] Do not transfer the gas stream unless the transferee has submitted to the EPA a written certification that the transferee will manage and treat any gas stream transferred under 40 CFR 63.113(i) and received from a source subject to the requirements of 40 CFR 63 Subpart G in accordance with the requirements of either 40 CFR 63.113 through 118, 40 CFR 63.102(b), or 40 CFR 63 Subpart D if alternative emission limitations have been granted the transferor in accordance with those provisions. Subpart G. [40 CFR 63.113(i)(2)]
- 1070 [40 CFR 63.114(d)(2)] Bypass lines: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(d)(2)]
Which Months: All Year Statistical Basis: None specified
- 1071 [40 CFR 63.117(a)] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- 1072 [LAC 33:III.2115.B] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
Which Months: All Year Statistical Basis: None specified
- 1073 [LAC 33:III.2115.C] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
Which Months: All Year Statistical Basis: None specified
- 1074 [LAC 33:III.2115.D] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
Which Months: All Year Statistical Basis: None specified
- 1075 [LAC 33:III.2115.E] VOC, Total <= 0.12 kg/1000 kg of product from the material recovery section.
Which Months: All Year Statistical Basis: None specified
- 1076 [LAC 33:III.2115.F] Halogenated hydrocarbons, total >= 95 % removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ.
Which Months: All Year Statistical Basis: None specified
- 1077 [LAC 33:III.2115.I] Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate.
Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.
- 1078 [LAC 33:III.2115.J.1] Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.
- 1079 [LAC 33:III.2115.J.2] Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.
- 1080 [LAC 33:III.2115.J] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115 K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.
- 1081 [LAC 33:III.2115.K]

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

RLP0039 Process Wastewater Stripper Vents

- 1082 [40 CFR 63.102(a)] Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]
- 1083 [40 CFR 63.103(b)(1)] Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]
- 1084 [40 CFR 63.103(b)(2)] Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 1085 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- 1086 [40 CFR 63.103(c)(1)] Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]
- 1087 [40 CFR 63.103(c)(2)] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]
- 1088 [40 CFR 63.103(c)] Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- 1089 [40 CFR 63.104(d)] Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- 1090 [40 CFR 63.104(f)] Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(1)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
- 1091 [40 CFR 63.105(d)] Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
- 1092 [40 CFR 63.105] Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.
- 1093 [40 CFR 63.113(a)(2)] Organic HAP >= 98 % reduction by weight, or <= 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- 1094 [40 CFR 63.113(i)(1)(ii)] Notify the transferee that the gas stream contains organic HAPs that are to be treated in accordance with the provisions of 40 CFR 63 Subpart G. Submit notice to the transferee initially and whenever there is a change in the required control. Subpart G. [40 CFR 63.113(i)(1)(ii)]
- 1095 [40 CFR 63.113(i)(2)] Do not transfer the gas stream unless the transferee has submitted to the EPA a written certification that the transferee will manage and treat any gas stream transferred under 40 CFR 63.113(i) and received from a source subject to the requirements of 40 CFR 63 Subpart G in accordance with the requirements of either 40 CFR 63.113 through 118, 40 CFR 63.102(b), or 40 CFR 63 Subpart D if alternative emission limitations have been granted the transferor in accordance with those provisions. Subpart G. [40 CFR 63.113(i)(2)]

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant
 Activity Number: PER20070007
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 Air - Title V Regular Permit Initial

RLP0039 Process Wastewater Stripper Vents

- 1096 [40 CFR 63.114(d)(2)] Bypass lines: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(d)(2)]
 Which Months: All Year Statistical Basis: None specified
- 1097 [40 CFR 63.117(a)] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
 Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
 Which Months: All Year Statistical Basis: None specified
- 1099 [LAC 33:III.2115.C] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
 Which Months: All Year Statistical Basis: None specified
- 1100 [LAC 33:III.2115.D] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
 Which Months: All Year Statistical Basis: None specified
- 1101 [LAC 33:III.2115.E] VOC, Total <= 0.12 kg/1000 kg of product from the material recovery section.
 Which Months: All Year Statistical Basis: None specified
- 1102 [LAC 33:III.2115.F] Halogenated hydrocarbons, total >= 95 % removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ.
 Which Months: All Year Statistical Basis: None specified
- 1103 [LAC 33:III.2115.I] Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate.
- 1104 [LAC 33:III.2115.J.1] Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.
- 1105 [LAC 33:III.2115.J.2] Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.
- 1106 [LAC 33:III.2115.J] Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.
- 1107 [LAC 33:III.2115.K] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

RLP0040 Process Wastewater Stripper Vents

- 1108 [40 CFR 63.102(a)] Comply with the requirements of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.102(a)]

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RLP0040 Process Wastewater Stripper Vents

- 1109 [40 CFR 63.103(b)(1)] Conduct performance tests and compliance determinations according to the schedule and procedures in 40 CFR 63.7(a) and the applicable sections of 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(b)(1)]
- 1110 [40 CFR 63.103(b)(2)] Submit Notification: Due at least 30 calendar days before a performance test is scheduled. Notify DEQ of the intention to conduct a performance test to allow DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 63.103(b)(2)]
- 1111 [40 CFR 63.103(b)(3)] Conduct performance tests according to the provisions in 40 CFR 63.7(e) of subpart A, except conduct performance tests at maximum representative operating conditions for the process. Subpart F. [40 CFR 63.103(b)(3)]
- 1112 [40 CFR 63.103(c)(1)] Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible by computer or other means that provides access within 2 hours after a request. Subpart F. [40 CFR 63.103(c)(1)]
- 1113 [40 CFR 63.103(c)(2)] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Maintain records specified in 40 CFR 63.103(c)(2)(i) through (iii), as well as records specified in 40 CFR 63 Subparts G and H. Subpart F. [40 CFR 63.103(c)(2)]
- 1114 [40 CFR 63.103(c)] Keep copies of all applicable reports and records required by 40 CFR 63 Subparts F, G, and H for at least 5 years. If 40 CFR 63 Subparts G or H require records to be maintained for a time period different than 5 years, maintain those records for the time specified in 40 CFR 63 Subparts G or H. Subpart F. [40 CFR 63.103(c)]
- 1115 [40 CFR 63.104(d)] Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- 1116 [40 CFR 63.104(f)] Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(1)(i) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
- 1117 [40 CFR 63.105(d)] Maintenance wastewater: Incorporate the procedures described in 40 CFR 63.105(b) and (c) as part of the start-up, shutdown and malfunction plan required under 40 CFR 63.6(e)(3). Subpart F. [40 CFR 63.105(d)]
- 1118 [40 CFR 63.105] Maintenance wastewater: Prepare a description of maintenance procedures for the management of wastewaters generated from the emptying and purging of equipment in the process during temporary shutdowns for inspections, maintenance, and repair and during periods which are not shutdowns as specified in 40 CFR 63.105(b)(1) through (b)(3). Modify and update the information required by 40 CFR 63.105(b) as needed following each maintenance procedure based on the actions taken and the wastewaters generated in the preceding maintenance procedure. Subpart F.
- 1119 [40 CFR 63.113(a)(2)] Organic HAP >= 98 % reduction by weight, or <= 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c). Subpart G. [40 CFR 63.113(a)(2)]
- 1120 [40 CFR 63.113(i)(1)(ii)] Which Months: All Year Statistical Basis: None specified
Notify the transferee that the gas stream contains organic HAPs that are to be treated in accordance with the provisions of 40 CFR 63 Subpart G. Submit notice to the transferee initially and whenever there is a change in the required control. Subpart G. [40 CFR 63.113(i)(1)(ii)]
- 1121 [40 CFR 63.113(i)(2)] Do not transfer the gas stream unless the transferee has submitted to the EPA a written certification that the transferee will manage and treat any gas stream transferred under 40 CFR 63.113(i) and received from a source subject to the requirements of 40 CFR 63 Subpart G in accordance with the requirements of either 40 CFR 63.113 through 118, 40 CFR 63.102(b), or 40 CFR 63 Subpart D if alternative emission limitations have been granted the transfer in accordance with those provisions. Subpart G. [40 CFR 63.113(i)(2)]
- 1122 [40 CFR 63.114(d)(2)] Bypass lines: Seal or closure mechanism monitored by visual inspection/determination monthly to ensure that the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart G. [40 CFR 63.114(d)(2)]
Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant
Activity Number: PER20070007
Permit Number: 3063-V0
Air - Title V Regular Permit Initial

RLP0040 Process Wastewater Stripper Vents

- 1123 [40 CFR 63.117(a)] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- 1124 [LAC 33:III.2115.B] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
 Which Months: All Year Statistical Basis: None specified
- 1125 [LAC 33:III.2115.C] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
 Which Months: All Year Statistical Basis: None specified
- 1126 [LAC 33:III.2115.D] Nonhalogenated hydrocarbon burning: Temperature >= 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent.
 Which Months: All Year Statistical Basis: None specified
- 1127 [LAC 33:III.2115.E] VOC, Total <= 0.12 kg/1000 kg of product from the material recovery section.
 Which Months: All Year Statistical Basis: None specified
- 1128 [LAC 33:III.2115.F] Halogenated hydrocarbons, total >= 95 % removal efficiency as determined in accordance with LAC 33:III.2115.J.1, by combustion or other methods specified in LAC 33:III.2115.G. If combusted, reduce the halogenated products of combustion to an emission level acceptable to DEQ.
 Which Months: All Year Statistical Basis: None specified
- 1129 [LAC 33:III.2115.I] Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate.
- 1130 [LAC 33:III.2115.J.1] Demonstrate compliance with LAC 33:III.2115 as requested by DEQ.
- 1131 [LAC 33:III.2115.J.2] Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e.
- 1132 [LAC 33:III.2115.J] Comply with LAC 33:III.2115 as soon as practicable but in no event later than August 20, 2003. Comply with the requirements of LAC 33:III.2115 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2115 as a result of a revision of LAC 33:III.2115.
- 1133 [LAC 33:III.2115.K] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.

UNF0001 Entire Facility

1134 [40 CFR 60.] All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.

SPECIFIC REQUIREMENTS

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

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Air - Title V Regular Permit Initial

UNF0001 Entire Facility

- 1135 [40 CFR 61.342(b)] Comply with the requirements of 40 CFR 61.342(c) through (h) no later than 90 days following the effective date, unless a waiver of compliance has been obtained under 40 CFR 61.11, or by the initial startup for a new source with an initial startup after the effective date. Subpart FF. [40 CFR 61.342(b)]
- 1136 [40 CFR 61.342(c)(1)(i)] *Waste streams containing benzene: Remove or destroy the benzene contained in the waste using a treatment process or wastewater treatment system that complies with the standards specified in 40 CFR 61.348. Subpart FF. [40 CFR 61.342(c)(1)(i)]*
- 1137 [40 CFR 61.356] *Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency Maintain records as specified in 40 CFR 61.356(a) through (n), as applicable. Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.*
- 1138 [40 CFR 61.357(d)(2)] *Submit report: Due annually, beginning on the date that equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit updates to the information listed in 40 CFR 61.357(a)(1) through (a)(3) or, if the information in 40 CFR 61.357(a)(1) through (3) is not changed in the following year, a statement to that effect. Subpart FF. [40 CFR 61.357(d)(2)]*
- 1139 [40 CFR 61.65(a)] *Relief valves: Do not discharge to the atmosphere from any relief valve on any equipment in vinyl chloride service, except for an emergency relief discharge, and except as provided in 40 CFR 61.65(d). Subpart F. [40 CFR 61.65(a)]*
- 1140 [40 CFR 61.65(a)] *Relief valves: Submit report in writing within 10 days of any relief valve discharge, except for those subject to 40 CFR 61.65(d). Submit a report containing information on the source, nature and cause of the discharge, the date and time of the discharge, the approximate total vinyl chloride loss during the discharge, the method used for determining the vinyl chloride loss (the calculation of the vinyl chloride loss), the action that was taken to prevent the discharge, and measures adopted to prevent future discharges. Subpart F. [40 CFR 61.65(a)]*
- 1141 [40 CFR 61.65(b)(5)] *Duct all gases which are manually vented from equipment in vinyl chloride service through a control system from which the concentration of vinyl chloride in the exhaust gases does not exceed 10 ppm (average for 3-hour period), or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(5)]*
- 1142 [40 CFR 61.65(b)(6)(i)] *Vinyl chloride <= 2 percent of the equipment's containment volume, or vinyl chloride <= 0.0950 cubic meters (25 gallons), whichever is larger, at standard temperature and pressure, before opening any equipment for any reason. Subpart F. [40 CFR 61.65(b)(6)(i)]*
- 1143 [40 CFR 61.65(b)(6)(ii)] *Which Months: All Year Statistical Basis: None specified*
- 1144 [40 CFR 61.65(b)(8)(i)] *Duct any vinyl chloride removed from the equipment in accordance with 40 CFR 61.65(b)(6)(i) through a control system from which the concentration of vinyl chloride in the exhaust gas does not exceed 10 ppm (average for 3-hour period) or equivalent as provided in 40 CFR 61.66. Subpart F. [40 CFR 61.65(b)(6)(ii)]*
- 1145 [40 CFR 61.65(b)(9)(i)] *Operate a reliable and accurate vinyl chloride monitoring system in accordance with the specifications in 40 CFR 61.65(b)(8)(i) for detection of major leaks and identification of the general area of the plant where a leak is located. Subpart F. [40 CFR 61.65(b)(8)(i)]*
- 1146 [40 CFR 61.67(b)] *Inprocess wastewater (vinyl chloride > 10ppm): Vinyl chloride <= 10 ppmw before being mixed with any other inprocess wastewater stream which contains less than 10 ppm vinyl chloride; before being exposed to the atmosphere; before being discharged to a wastewater treatment process; or before being discharged untreated as a wastewater. Subpart F. [40 CFR 61.65(b)(9)(i)]*
- 1147 [40 CFR 61.67(e)] *Which Months: All Year Statistical Basis: None specified*
- 1148 [40 CFR 61.67(b)] *Provide DEQ at least 30 days prior notice of an emission test to afford DEQ the opportunity to have an observer present during the test. Subpart F. [40 CFR 61.67(b)]*
- 1149 [40 CFR 61.67(e)] *Submit test results: Due before the close of the next business day following the determination of vinyl chloride emissions. Submit the results by registered letter. Subpart F. [40 CFR 61.67(e)]*

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- 1148 [40 CFR 61.68(d)] Calculate the vinyl chloride content of emissions by best practical engineering judgment based on the discharge duration and known vinyl chloride concentrations in the affected equipment as determined in accordance with 40 CFR 61.67(h) or other acceptable method, for exhaust gases having emission limits that are subject to the requirement of 40 CFR 61.68(a) that are emitted to the atmosphere without passing through the control system and required vinyl chloride monitoring system. Subpart F. [40 CFR 61.68(d)]
- 1149 [40 CFR 61.68(f)] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. For each vinyl chloride emission to the atmosphere determined in accordance with 40 CFR 61.68(e) to be in excess of the applicable emission limits, record the identity of the source(s), the date, time and duration of the excess emission, the cause of the excess emission, and the approximate total vinyl chloride loss during the excess emission, and the method used for determining the vinyl chloride loss. Retain and make available for inspection by DEQ as required by 40 CFR 61.71(a). Subpart F. [40 CFR 61.68(f)]
- 1150 [40 CFR 61.] All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A.
- 1151 [40 CFR 63.1 - 16] All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A.
- 1152 [40 CFR 68.12(b)(1)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Document that the nearest public receptor is beyond the distance to a toxic or flammable endpoint defined in 68.22. [40 CFR 68.12(b)(1)]
- 1153 [40 CFR 68.12(b)(3)] Ensure that response actions have been coordinated with local emergency planning and response agencies. [40 CFR 68.12(b)(3)]
- 1154 [40 CFR 68.12(b)(4)] Include in the RMP the certification specified in 68.12(b)(4). [40 CFR 68.12(b)(4)]
- 1155 [40 CFR 68.150] Submit Risk Management Plan (RMP): Due no later than June 21, 1999, or three years after the date on which a regulated substance is first listed under 68.130, or the date on which a regulated substance is first present above a threshold quantity in a process. Submit in a method and format to a central point as specified by EPA prior to June 21, 1999.
- 1156 [40 CFR 68.155] Provide in the RMP an executive summary that includes a brief description of the elements listed in 68.155(a) through (g).
- 1157 [40 CFR 68.160] Complete a single registration form and include in the RMP. Cover all regulated substances handled in covered processes. Include in the registration the information specified in 68.160(b)(1) through (13).
- 1158 [40 CFR 68.165] Submit in the RMP information one worst-case release scenario for each Program 1 process. Include the data specified in 68.165(b)(1) through (13).
- 1159 [40 CFR 68.168] Submit in the RMP the information provided in 68.42(b) on each accident covered by 68.42(a).
- 1160 [40 CFR 68.180] Provide in the RMP the emergency response information listed in 68.180(a) through (c).
- 1161 [40 CFR 68.190(c)] Submit revised registration to EPA: Due within six months after a stationary source is no longer subject to 40 CFR 68. Indicate that the stationary source is no longer covered. [40 CFR 68.190(c)]
- 1162 [40 CFR 68.200] Maintain records supporting the implementation of 40 CFR 68 for five years unless otherwise provided.
- 1163 [40 CFR 68.22] Use the endpoints specified in 68.22(a) through (g) for analyses of offsite consequences.
- 1164 [40 CFR 68.25] Analyze the release scenarios in 68.25, as specified in 68.25(a) through (h).
- 1165 [40 CFR 68.28] Identify and analyze at least one alternative release scenario for each regulated toxic substance held in a covered process(es) and at least one alternative release scenario to represent all flammable substances held in covered processes, as specified in 68.28(b) through (e).
- 1166 [40 CFR 68.30] Estimate in the RMP the population within a circle with its center at the point of the release and a radius determined by the distance to the endpoint defined in 68.22(a).

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- 1167 [40 CFR 68.33] List in the RMP environmental receptors within a circle with its center at the point of the release and a radius determined by the distance to the endpoint defined in 68.22(a).
- 1168 [40 CFR 68.36(b)] Submit revised RMP: Due within six months after changes in processes, quantities stored or handled, or any other aspect of the stationary source increase or decrease the distance to the endpoint by a factor of two or more. [40 CFR 68.36(b)]
- 1169 [40 CFR 68.36] Review and update the offsite consequence analyses at least once every five years. Complete a revised analysis within six months if changes in processes, quantities stored or handled, or any other aspect of the stationary source might reasonably be expected to increase or decrease the distance to the endpoint by a factor of two or more.
- 1170 [40 CFR 68.39] Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain the records specified in 68.39(a) through (e) on the offsite consequence analyses.
- 1171 [40 CFR 70.5(a)(1)(iii)] Submit Title V permit application for renewal: Due 6 months before permit expiration date. [40 CFR 70.5(a)(1)(iii)]
- 1172 [40 CFR 70.6(a)(3)(iii)(A)] Submit Title V monitoring results report: Due semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(iii)(A)]
- 1173 [40 CFR 70.6(a)(3)(iii)(B)] Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(iii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. [40 CFR 70.6(a)(3)(iii)(B)]
- 1174 [40 CFR 70.6(c)(5)(iv)] Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)]
- 1175 [LAC 33:III.1109.B] Outdoor burning of waste material or other combustible material is prohibited.
- 1176 [LAC 33:III.1305] Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.
- 1177 [LAC 33:III.2113.A] Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.
- 1178 [LAC 33:III.2119] Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.
- 1179 [LAC 33:III.2201.D.9] Do not fire an affected point source with Number 6 Fuel Oil or perform testing of emergency and training combustion units without prior approval of DEQ on a day that is designated as an Ozone Action Day by DEQ.
- 1180 [LAC 33:III.2901.D] Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited.

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- 1181 [LAC 33:III.2901.F] If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G.
- 1182 [LAC 33:III.501.C.6] Maintain best practical housekeeping and maintenance practices at the highest possible standards to control emissions of highly reactive volatile organic compounds (HRVOC), which include 1,3-Butadiene, Butene, cis-2-Butene, trans-2-Butene, Ethylene, Propylene, Toluene, Xylene, m/p-Xylene, o-Xylene. (State Only).
- 1183 [LAC 33:III.501.C.6] Maintain, to the extent practicable, a leak-free facility taking such steps as are necessary and reasonable to prevent leaks and to expeditiously repair leaks that occur. Update the written plan presently required by LAC 33:III.2113.A.4 within 30 days of receipt of this permit to incorporate these general duty obligations into the housekeeping procedures. The plan shall then be considered a means of emission control subject to the required use and maintenance provisions of LAC 33:III.905. Failure to develop, use, and diligently maintain the plan shall be a violation of this permit. (State Only).
- 1184 [LAC 33:III.504] Comply with the requirements of the Nonattainment New Source Review Program. This permit includes provisions of the Nonattainment New Source Review Procedures (NNSR) from LAC 33:III.504.
- 1185 [LAC 33:III.509] Comply with the requirements of PSD-LA-731. This permit includes provisions of the Prevention of Significant Deterioration (PSD) review from Permit PSD-LA-731.
- 1186 [LAC 33:III.5107.A.1] Submit initial annual emissions report (TED1) to DEQ within 180 days of December 20, 1991. Identify the quantity of emissions of toxic air pollutants listed in Table 51.1 for the calendar year 1991.
- 1187 [LAC 33:III.5107.A.2] Submit Annual Emissions Report (TED1): Due annually, by the 1st of July, to the Office of Environmental Assessment in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3.
- 1188 [LAC 33:III.5107.A.3] Include a certification statement with initial and subsequent annual emission reports and revisions to any emission report to attest that the information contained in the emission report is true, accurate, and complete, and signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official. The certification statement shall read: "I certify, under penalty of perjury, that the emissions data provided is accurate to the best of my knowledge, information, and belief, and I understand that submitting false or misleading information will expose me to prosecution under state regulations"
- 1189 [LAC 33:III.5107.B.1] Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but no later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere which results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property).
- 1190 [LAC 33:III.5107.B.2] Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:1.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:1.3923.

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- 1191 [LAC 33:III.5107.B.3] Submit notification: Due to SPOC immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:III.393.1, except as provided in LAC 33:III.5107.B.6. Submit notification in the manner provided in LAC 33:III.392.3.
- 1192 [LAC 33:III.5107.B.4] Submit written report: Due within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through 3. Submit report to SPOC by certified mail. Include the information specified in LAC 33:III.5107.B.4.a.1 through viii. Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, in the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge.
- 1193 [LAC 33:III.5107.B.5] Submit to DEQ a compliance plan for achieving compliance with MACT requirements in accordance with LAC 33:III.5109.D. Include the elements listed under LAC 33:III.5109.E.
- 1194 [LAC 33:III.5109.A.1] Submit to DEQ a certification of compliance with all MACT requirements, in accordance with LAC 33:III.5109.D. Include the elements listed in LAC 33:III.5109.E.
- 1195 [LAC 33:III.5109.A.2] Submit to DEQ a compliance plan for achieving compliance with the ambient air standard(s), in accordance with LAC 33:III.5109.D. Include the elements listed under LAC 33:III.5109.E.
- 1196 [LAC 33:III.5109.B.1] Submit to DEQ a certification of compliance with all ambient air standards, in accordance with LAC 33:III.5109.D. Include the elements listed under LAC 33:III.5109.E.
- 1197 [LAC 33:III.5109.B.2] Achieve compliance with ambient air standards unless it can be demonstrated to the satisfaction of DEQ that compliance with an ambient air standard would be economically infeasible; that emissions could not reasonably be expected to pose a threat to public health or the environment, and that emissions would be controlled to a level that is Maximum Achievable Control Technology.
- 1198 [LAC 33:III.5109.B.3] Determine the status of compliance, beyond the property line, with applicable ambient air standards listed in LAC 33:III.5112.Table 51.2. Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III.Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by the department.
- 1199 [LAC 33:III.5109.B] Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of emissions testing. Retain records of emission test results and other data needed to determine emissions. Retained records at the source, or at an alternate location approved by DEQ for a minimum of two years, and make available upon request for inspection by DEQ.
- 1200 [LAC 33:III.5109.C] Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 5 when the administrative authority declares an Air Pollution Alert. Activate the preplanned strategy listed in LAC 33:III.5611.Table 6 when the administrative authority declares an Air Pollution Warning. Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 7 when the administrative authority declares an Air Pollution Emergency.
- 1201 [LAC 33:III.5113.B.6] Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611.Tables 5, 6, and 7.
- 1202 [LAC 33:III.5609.A.1.b]
- 1203 [LAC 33:III.5609.A.2.b]
- 1204 [LAC 33:III.5609.A.3.b]
- 1205 [LAC 33:III.5609.A]

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1206 [LAC 33:III.5901.A]

1207 [LAC 33:III.5907]

1208 [LAC 33:III.5911.A]

1209 [LAC 33:III.5911.C]

1210 [LAC 33:III.919.D]

Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901.

Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur.

Submit registration: Due January 31, 1998, or within 60 days after the source becomes subject to LAC 33:III. Chapter 59, whichever is later. Include the information listed in LAC 33:III.5911.B, and submit to the Office of Environmental Compliance.

Submit amended registration: Due to the Office of Environmental Compliance within 60 days after the information in the submitted registration is no longer accurate.

Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.

General Information
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Also Known As:	ID	Name	User Group	Start Date
	1280-00118	Shintech - Proposed PVC Plant	CDS Number	02-10-2005
	LA0120529	LPDES #	LPDES Permit #	06-15-2005
	LAR10D207	LPDES #	LPDES Permit #	10-01-2005
	WQC WW 050316-36	Water Quality Certification #	Water Certification	04-05-2005

Physical Location:
 26270 Hwy 405
 (portion of)
 Plaquemine, LA 70764

Mailing Address:
 PO Box 358
 Addis, LA 707100358

Related People:	Name	Mailing Address	Phone (Type)	Relationship
	James Bell	PO Box 358 Addis, LA 707100358	2256851199 Ext 420	Air Permit Contact For
	James Bell	PO Box 358 Addis, LA 707100358	JBELL@SHIN-TECH	Air Permit Contact For
	James Bell	PO Box 358 Addis, LA 707100358	2256851199 Ext 420	Emission Inventory Contact for
	James Bell	PO Box 358 Addis, LA 707100358	JBELL@SHIN-TECH	Emission Inventory Contact for
	Paul Clifton Sr.	6060 Perkins Rd Ste 100 Baton Rouge, LA 70808	2257667400 (WP)	Water Certification Contact for
	David V. Wise	PO Box 358 Addis, LA 707100358	2256851199 (WP)	Responsible Official for
	David V. Wise	PO Box 358 Addis, LA 707100358	2256851113 (WF)	Responsible Official for

Related Organizations:	Name	Address	Phone (Type)	Relationship
	Shintech Louisiana LLC	PO Box 358 Addis, LA 707100358	2256851199 (WP)	Owns
	Shintech Louisiana LLC	PO Box 358 Addis, LA 707100358	2256850062 (WF)	Owns
	Shintech Louisiana LLC	PO Box 358 Addis, LA 707100358	2256851199 (WP)	Operates
	Shintech Louisiana LLC	PO Box 358 Addis, LA 707100358	2256850062 (WF)	Operates
	Shintech Louisiana LLC	PO Box 358 Addis, LA 707100358	2256851199 (WP)	Water Billing Party for
	Shintech Louisiana LLC	PO Box 358 Addis, LA 707100358	2256850062 (WF)	Water Billing Party for
	Shintech Louisiana LLC	PO Box 358 Addis, LA 707100358	2256851199 (WP)	Air Billing Party for
	Shintech Louisiana LLC	PO Box 358 Addis, LA 707100358	2256850062 (WF)	Air Billing Party for
	Shintech Louisiana LLC	PO Box 358 Addis, LA 707100358	2256851199 (WP)	Emission Inventory Billing Party
	Shintech Louisiana LLC	PO Box 358 Addis, LA 707100358	2256850062 (WF)	Emission Inventory Billing Party

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to facupdate@a.gov.

INVENTORIES

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant
Activity Number: PER20070007
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Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
Entire Facility						
EQT0112	2U-1 - Boiler A		250 MM BTU/hr	250 MM BTU/hr		8760 hr/yr (All Year)
EQT0113	2U-2 - Boiler B		250 MM BTU/hr	250 MM BTU/hr		8760 hr/yr (All Year)
EQT0114	2U-3 - 35% HCl Tank Absorber		5.6 ft ³ /hr	5.6 ft ³ /hr		8760 hr/yr (All Year)
EQT0115	2U-5 - Ship Dock Emergency Pump		450 horsepower	450 horsepower		65 hr/yr (All Year)
EQT0116	2U-6 - Utility Emergency Generator		685 horsepower	685 horsepower		65 hr/yr (All Year)
EQT0117	2C-1 - No. 2 Chlorine Scrubber		1.28 MM ft ³ /hr	1.28 MM ft ³ /hr		8760 hr/yr (All Year)
EQT0118	2C-2 - HCl Scrubber		9600 ft ³ /hr	9600 ft ³ /hr		8760 hr/yr (All Year)
EQT0119	2C-3 - HCl Storage Tank Absorber		.2 ft ³ /hr	.2 ft ³ /hr		8760 hr/yr (All Year)
EQT0120	2C-4 - C/A Cooling Tower		38750 gallons/min	38750 gallons/min		8760 hr/yr (All Year)
EQT0121	2C-6 - CA Emergency Generator					122 hr/yr (All Year)
EQT0122	2M-1 - Cracking Furnace A		90 MM BTU/hr	90 MM BTU/hr		8760 hr/yr (All Year)
EQT0123	2M-2 - Cracking Furnace B		90 MM BTU/hr	90 MM BTU/hr		8760 hr/yr (All Year)
EQT0124	2M-3 - Cracking Furnace C		90 MM BTU/hr	90 MM BTU/hr		8760 hr/yr (All Year)
EQT0125	2M-4 - Cracking Furnace D		90 MM BTU/hr	90 MM BTU/hr		8760 hr/yr (All Year)
EQT0126	2M-5 - Gas Thermal Oxidizer A		72 MM BTU/hr	36 MM BTU/hr		8760 hr/yr (All Year)
EQT0127	2M-6 - Gas Thermal Oxidizer B		72 MM BTU/hr	36 MM BTU/hr		8760 hr/yr (All Year)
EQT0128	2M-7 - VCM Cooling Tower		106000 gallons/min	106000 gallons/min		8760 hr/yr (All Year)
EQT0129	2M-11 - VCM Emergency Generators					301 hr/yr (All Year)
EQT0134	2MTK-491 - No. 1 EDC Intermediate storage					8760 hr/yr (All Year)
EQT0135	2MTK-492 - No. 2 EDC Intermediate storage					8760 hr/yr (All Year)
EQT0136	2MTK-493 - No. 3 EDC Intermediate storage					8760 hr/yr (All Year)
EQT0137	2MTK-494 - No. 4 EDC Intermediate storage					8760 hr/yr (All Year)
EQT0138	2MTK-495 - No. 5 EDC Intermediate storage					8760 hr/yr (All Year)
EQT0139	2MTK-496 - By-Product Storage					8760 hr/yr (All Year)
EQT0140	2MTK-499A - No. 1 By-Product Tank					8760 hr/yr (All Year)
EQT0141	2MTK-499B - No. 2 By-Product Tank					8760 hr/yr (All Year)
EQT0142	2MTK-719A - No. 1 Wastewater Tank					8760 hr/yr (All Year)
EQT0143	2MTK-719B - No. 2 Wastewater Tank					8760 hr/yr (All Year)
EQT0144	2MTK-951A - 1st EDC Product Tank					8760 hr/yr (All Year)
EQT0145	2MTK-951B - 2nd EDC Product Tank					8760 hr/yr (All Year)
EQT0146	2MDCW-1 - Wastewater Streams, acidic washing water					8760 hr/yr (All Year)
EQT0147	2MDCW-2 - Wastewater Streams, caustic washing water					8760 hr/yr (All Year)
EQT0148	2MOHCW-1 - Wastewater Stream, byproduct water from No. 1 OHC Train					8760 hr/yr (All Year)
EQT0149	2MOHCW-2 - Wastewater Stream, byproduct water from No. 2 OHC Train					8760 hr/yr (All Year)
EQT0150	2MOHCW-3 - Wastewater Stream, byproduct water from No. 3 OHC Train					8760 hr/yr (All Year)
EQT0151	2MOHCW-4 - Wastewater Stream, washing water from OHC Train					8760 hr/yr (All Year)
EQT0152	2MEP-1 - Wastewater Stream, water from EDC purification column					8760 hr/yr (All Year)

INVENTORIES

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant
Activity Number: PER20070007
Permit Number: 3063-V0
Air - Title V Regular Permit Initial

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
Entire Facility						
EQT0153	2MTKW491 - Wastewater Stream, draw off water from MTK-491					8760 hr/yr (All Year)
EQT0154	2MTKW492 - Wastewater Stream, draw off water from MTK-492					8760 hr/yr (All Year)
EQT0155	2MTKW695 - Wastewater Stream, draw off water from Neutralizer Tank					8760 hr/yr (All Year)
EQT0156	2MCLW693 - Wastewater Stream, draw off water from EMG Vent Scrubber					8760 hr/yr (All Year)
EQT0157	2MGTO-1 - Water from the bottom of the scrubber in No. 1 thermal oxidizer					8760 hr/yr (All Year)
EQT0158	2MGTO-2 - Water from the bottom of the scrubber in No. 2 thermal oxidizer					8760 hr/yr (All Year)
EQT0159	2MGTO-3 - Water from the bottom of the absorber in No. 1 thermal oxidizer					8760 hr/yr (All Year)
EQT0160	2MGTO-4 - Water from the bottom of the absorber in No. 2 thermal oxidizer					8760 hr/yr (All Year)
EQT0161	2MSW - Process Area Storm Water and Maintenance Wastewater					8760 hr/yr (All Year)
EQT0162	2VCLD-RC - VCM Railcar Loading Racks					8760 hr/yr (All Year)
EQT0163	2VCLD-SD - VCM Railcar Loading Racks					8760 hr/yr (All Year)
EQT0164	2EDLD-SD - EDC Railcar Loading Racks					8760 hr/yr (All Year)
EQT0165	2MCBFTR - CBF/EDC Loading Racks					8760 hr/yr (All Year)
EQT0166	2MTK-501 - Feed Tank					8760 hr/yr (All Year)
FUG0006	2U-4 - Fugitive Emission (Bio)					8760 hr/yr (All Year)
FUG0007	2C-5 - C/A Unit Fugitive Emissions					8760 hr/yr (All Year)
FUG0008	2M-8 - VCM Unit Fugitive Emissions					8760 hr/yr (All Year)
FUG0009	2M-9 - VCM Unit Fugitive Emissions - 2					8760 hr/yr (All Year)
FUG0010	2M-10 - VCM Unit Fugitive Emissions - 3					180 hr/yr (All Year)
RLP0010	2MCL-301 - Cracking Furnace Initial Quench Process Vents					5030 hr/yr (All Year)
RLP0011	2MCL-302 - Cracking Furnace Initial Quench Process Vents					8760 hr/yr (All Year)
RLP0012	2MCL-303 - Cracking Furnace Initial Quench Process Vents					8760 hr/yr (All Year)
RLP0013	2MCL-304 - Cracking Furnace Initial Quench Process Vents					8760 hr/yr (All Year)
RLP0014	2MRE-203 - OHC Reactor Initial Quench Process Vents					8760 hr/yr (All Year)
RLP0015	2MRE-204 - OHC Reactor Initial Quench Process Vents					8760 hr/yr (All Year)
RLP0016	2MRE-205 - OHC Reactor Initial Quench Process Vents					8760 hr/yr (All Year)
RLP0017	2MRE-101 - Vent from 1st Direct Chlorination Reactor					8760 hr/yr (All Year)
RLP0018	2MRE-102 - Vent from 2nd Direct Chlorination Reactor					8760 hr/yr (All Year)
RLP0019	2MTK-105 - Vent from Direct Chlorination product separator					8760 hr/yr (All Year)
RLP0020	2MHE-212 - Vent from 1st Vent Chiller in OHC Train					8760 hr/yr (All Year)
RLP0021	2MHE-213 - Vent from 2nd Vent Chiller in OHC Train					8760 hr/yr (All Year)
RLP0022	2MHE-214 - Vent from 3rd Vent Chiller in OHC Train					8760 hr/yr (All Year)
RLP0023	2MTK-300 - EDC Feed Tank Vent					8760 hr/yr (All Year)
RLP0024	2MCL-231 - 1st Wastewater stripper vent					8760 hr/yr (All Year)

INVENTORIES

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant
Activity Number: PER20070007
Permit Number: 3063-V0
Air - Title V Regular Permit Initial

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
Entire Facility						
RLP0025	2MCL-232 - 2nd Wastewater stripper vent					8760 hr/yr (All Year)
RLP0026	2MCL-401 - EDC Purification Drying Column Vent					8760 hr/yr (All Year)
RLP0027	2MCL-402 - EDC Purification Lights Column Vent					8760 hr/yr (All Year)
RLP0028	2MCL-403 - EDC Purification HiBoil Column Vent					8760 hr/yr (All Year)
RLP0029	2MCL-404 - EDC Purification Vacuum Column Vent					8760 hr/yr (All Year)
RLP0030	2MCL-405 - EDC Purification Clean-up Column Vent					8760 hr/yr (All Year)
RLP0031	2MCL-406 - EDC Purification 2nd HiBoil Column Vent					8760 hr/yr (All Year)
RLP0032	2MCL-631 - 1st Misc. Wastewater stripper Vent					8760 hr/yr (All Year)
RLP0033	2MCL-632 - 2nd Misc. Wastewater stripper Vent					8760 hr/yr (All Year)
RLP0034	2MCL-633 - 1st Acid Wastewater stripper Vent					8760 hr/yr (All Year)
RLP0035	2MCL-634 - 2nd Acid Wastewater stripper Vent					8760 hr/yr (All Year)
RLP0036	2MCL-204 - OHC Train CO2 Stripper Process Vents					8760 hr/yr (All Year)
RLP0037	2MCL-205 - OHC Train CO2 Stripper Process Vents					8760 hr/yr (All Year)
RLP0038	2MRE-103 - DC Reactor Process Vent					8760 hr/yr (All Year)
RLP0039	2MCL-221 - Process Wastewater Stripper Vents					8760 hr/yr (All Year)
RLP0040	2MCL-222 - Process Wastewater Stripper Vents					8760 hr/yr (All Year)

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
Entire Facility							
EQT0112	2U-1 - Boiler A	54.1	74300	5.4		100	300
EQT0113	2U-2 - Boiler B	54.1	74300	5.4		100	300
EQT0114	2U-3 - 35% HCl Tank Absorber	.68	3.5	.33		46	70
EQT0115	2U-5 - Ship Dock Emergency Pump	80	2028	1.3		13.6	775
EQT0116	2U-6 - Utility Emergency Generator	80	2028	1.3		13.6	775
EQT0117	2C-1 - No. 2 Chlorine Scrubber	34.9	21333	3.6		65	110
EQT0118	2C-2 - HCl Scrubber	31.2	160	.33		80	110
EQT0119	2C-3 - HCl Storage Tank Absorber	.01	.01	.25		50	110
EQT0120	2C-4 - C/A Cooling Tower	26.5			1885	50	100
EQT0121	2C-6 - CA Emergency Generator	80	2028	1.3		13.6	775
EQT0122	2M-1 - Cracking Furnace A	11.3	27500	7.2		130	300
EQT0123	2M-2 - Cracking Furnace B	11.3	27500	7.2		130	300
EQT0124	2M-3 - Cracking Furnace C	11.3	27500	7.2		130	300
EQT0125	2M-4 - Cracking Furnace D	11.3	27500	7.2		130	300
EQT0126	2M-5 - Gas Thermal Oxidizer A	23.6	40078	6		80	300
EQT0127	2M-6 - Gas Thermal Oxidizer B	23.6	40078	6		80	300

INVENTORIES
AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant
Activity Number: PER20070007
Permit Number: 3063-V0
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Stack Information:		Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
Entire Facility			24.5	2028	1.3	64.34	46	100
EQT0128	2M-7 - VCM Cooling Tower		80	2028			13.6	775
EQT0129	2M-11 - VCM Emergency Generators							

Relationships:

ID	Description	Relationship	ID	Description
EQT0134	No. 1 EDC Intermediate Storage	Vents to	GRP0005	Gas Thermal Oxidizers CAP
EQT0135	No. 2 EDC Intermediate Storage	Vents to	GRP0005	Gas Thermal Oxidizers CAP
EQT0136	No. 3 EDC Intermediate Storage	Vents to	GRP0005	Gas Thermal Oxidizers CAP
EQT0137	No. 4 EDC Intermediate Storage	Vents to	GRP0005	Gas Thermal Oxidizers CAP
EQT0138	No. 5 EDC Intermediate Storage	Vents to	GRP0005	Gas Thermal Oxidizers CAP
EQT0139	By-Product Storage	Vents to	GRP0005	Gas Thermal Oxidizers CAP
EQT0140	No. 1 By-Product Tank	Vents to	GRP0005	Gas Thermal Oxidizers CAP
EQT0141	No. 2 By-Product Tank	Vents to	GRP0005	Gas Thermal Oxidizers CAP
EQT0142	No. 1 Wastewater Tank	Vents to	GRP0005	Gas Thermal Oxidizers CAP
EQT0143	No. 2 Wastewater Tank	Vents to	GRP0005	Gas Thermal Oxidizers CAP
EQT0144	1st EDC Product Tank	Vents to	GRP0005	Gas Thermal Oxidizers CAP
EQT0145	2nd EDC Product Tank	Vents to	GRP0005	Gas Thermal Oxidizers CAP
EQT0146	Wastewater Stream, acidic washing water	Vents to	RLP0025	2nd Wastewater stripper vent
EQT0146	Wastewater Stream, acidic washing water	Vents to	RLP0024	1st Wastewater stripper vent
EQT0147	Wastewater Stream, caustic washing water	Vents to	RLP0025	2nd Wastewater stripper vent
EQT0147	Wastewater Stream, caustic washing water	Vents to	RLP0024	1st Wastewater stripper vent
EQT0148	Wastewater Stream, byproduct water from No. 1 OHC Train	Vents to	RLP0025	2nd Wastewater stripper vent
EQT0148	Wastewater Stream, byproduct water from No. 1 OHC Train	Vents to	RLP0024	1st Wastewater stripper vent
EQT0149	Wastewater Stream, byproduct water from No. 2 OHC Train	Vents to	RLP0025	2nd Wastewater stripper vent
EQT0149	Wastewater Stream, byproduct water from No. 2 OHC Train	Vents to	RLP0024	1st Wastewater stripper vent
EQT0150	Wastewater Stream, byproduct water from No. 3 OHC Train	Vents to	RLP0025	2nd Wastewater stripper vent
EQT0150	Wastewater Stream, byproduct water from No. 3 OHC Train	Vents to	RLP0024	1st Wastewater stripper vent
EQT0151	Wastewater Stream, washing water from OHC train	Vents to	RLP0025	2nd Wastewater stripper vent
EQT0151	Wastewater Stream, washing water from OHC train	Vents to	RLP0024	1st Wastewater stripper vent
EQT0152	Wastewater Stream, water from EDC purification column	Vents to	RLP0025	2nd Wastewater stripper vent
EQT0152	Wastewater Stream, water from EDC purification column	Vents to	RLP0024	1st Wastewater stripper vent
EQT0153	Wastewater Stream, draw off water from MTK-491	Vents to	RLP0025	2nd Wastewater stripper vent
EQT0153	Wastewater Stream, draw off water from MTK-491	Vents to	RLP0024	1st Wastewater stripper vent
EQT0154	Wastewater Stream, draw off water from MTK-492	Vents to	RLP0025	2nd Wastewater stripper vent
EQT0154	Wastewater Stream, draw off water from MTK-492	Vents to	RLP0024	1st Wastewater stripper vent
EQT0155	Wastewater Stream, draw off water from Neutralizer Tank	Vents to	RLP0025	2nd Wastewater stripper vent

INVENTORIES

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant

Activity Number: PER20070007

Permit Number: 3063-V0

Air - Title V Regular Permit Initial

Relationships:

ID	Description	Relationship	ID	Description
EQT0155	Wastewater Stream, draw off water from Neutralizer Tank	Vents to	RLP0024	1st Wastewater stripper vent
EQT0156	Wastewater Stream, draw off water from EMG Vent Scrubber	Vents to	RLP0025	2nd Wastewater stripper vent
EQT0156	Wastewater Stream, draw off water from EMG Vent Scrubber	Vents to	RLP0024	1st Wastewater stripper vent
EQT0157	Water from the bottom of the scrubber in No. 1 thermal oxidizer	Vents to	RLP0025	2nd Wastewater stripper vent
EQT0157	Water from the bottom of the scrubber in No. 1 thermal oxidizer	Vents to	RLP0024	1st Wastewater stripper vent
EQT0158	Water from the bottom of the scrubber in No. 2 thermal oxidizer	Vents to	RLP0025	2nd Wastewater stripper vent
EQT0158	Water from the bottom of the scrubber in No. 2 thermal oxidizer	Vents to	RLP0024	1st Wastewater stripper vent
EQT0159	Water from the bottom of the absorber in No. 1 thermal oxidizer	Vents to	RLP0025	2nd Wastewater stripper vent
EQT0159	Water from the bottom of the absorber in No. 1 thermal oxidizer	Vents to	RLP0024	1st Wastewater stripper vent
EQT0160	Water from the bottom of the absorber in No. 2 thermal oxidizer	Vents to	RLP0025	2nd Wastewater stripper vent
EQT0160	Water from the bottom of the absorber in No. 2 thermal oxidizer	Vents to	RLP0024	1st Wastewater stripper vent
EQT0161	Process Area Storm Water and Maintenance Wastewater	Vents to	RLP0025	2nd Wastewater stripper vent
EQT0161	Process Area Storm Water and Maintenance Wastewater	Vents to	RLP0024	1st Wastewater stripper vent
EQT0162	VCM Railcar Loading Racks	Vents to	GRP0005	Gas Thermal Oxidizers CAP
EQT0163	VCM Railcar Loading Racks	Vents to	GRP0005	Gas Thermal Oxidizers CAP
EQT0164	EDC Railcar Loading Racks	Vents to	GRP0005	Gas Thermal Oxidizers CAP
EQT0165	CBF/EDC Loading Racks	Vents to	GRP0005	Gas Thermal Oxidizers CAP
EQT0166	Feed Tank	Vents to	GRP0005	Gas Thermal Oxidizers CAP
RLP0010	Cracking Furnace Initial Quench Process Vents	Controlled by	EQT0122	Cracking Furnace A
RLP0011	Cracking Furnace Initial Quench Process Vents	Controlled by	EQT0123	Cracking Furnace B
RLP0012	Cracking Furnace Initial Quench Process Vents	Controlled by	EQT0124	Cracking Furnace C
RLP0013	Cracking Furnace Initial Quench Process Vents	Controlled by	EQT0125	Cracking Furnace D
RLP0014	OHC Reactor Initial Quench Process Vents	Vents to	GRP0005	Gas Thermal Oxidizers CAP
RLP0015	OHC Reactor Initial Quench Process Vents	Vents to	GRP0005	Gas Thermal Oxidizers CAP
RLP0016	OHC Reactor Initial Quench Process Vents	Vents to	GRP0005	Gas Thermal Oxidizers CAP
RLP0017	Vent from 1st Direct Chlorination Reactor	Vents to	GRP0005	Gas Thermal Oxidizers CAP
RLP0018	Vent from 2nd Direct Chlorination Reactor	Vents to	GRP0005	Gas Thermal Oxidizers CAP
RLP0019	Vent from Direct Chlorination product separator	Vents to	GRP0005	Gas Thermal Oxidizers CAP
RLP0020	Vent from 1st Vent Chiller in OHC Train	Vents to	GRP0005	Gas Thermal Oxidizers CAP
RLP0021	Vent from 2nd Vent Chiller in OHC Train	Vents to	GRP0005	Gas Thermal Oxidizers CAP
RLP0022	Vent from 3rd Vent Chiller in OHC Train	Vents to	GRP0005	Gas Thermal Oxidizers CAP
RLP0023	EDC Feed Tank Vent	Vents to	GRP0005	Gas Thermal Oxidizers CAP
RLP0024	1st Wastewater stripper vent	Vents to	GRP0005	Gas Thermal Oxidizers CAP
RLP0025	2nd Wastewater stripper vent	Vents to	GRP0005	Gas Thermal Oxidizers CAP
RLP0026	EDC Purification Drying Column Vent	Vents to	GRP0005	Gas Thermal Oxidizers CAP
RLP0027	EDC Purification Lights Column Vent	Vents to	GRP0005	Gas Thermal Oxidizers CAP
RLP0028	EDC Purification Hiboil Column Vent	Vents to	GRP0005	Gas Thermal Oxidizers CAP

INVENTORIES

AI ID: 126578 - Shintech Louisiana LLC - Plaquemine PVC Plant
 Activity Number: PER20070007
 Permit Number: 3063-V0
 Air - Title V Regular Permit Initial

Relationships:

ID	Description	Relationship	ID	Description
RLP0029	EDC Purification Vacuum Column Vent	Vents to	GRP0005	Gas Thermal Oxidizers CAP
RLP0030	EDC Purification Clean-up Column Vent	Vents to	GRP0005	Gas Thermal Oxidizers CAP
RLP0031	EDC Purification 2nd Hibolli Column Vent	Vents to	GRP0005	Gas Thermal Oxidizers CAP
RLP0032	1st Misc. Wastewater stripper Vent	Vents to	GRP0005	Gas Thermal Oxidizers CAP
RLP0033	2nd Misc. Wastewater stripper Vent	Vents to	GRP0005	Gas Thermal Oxidizers CAP
RLP0034	1st Acid Wastewater stripper Vent	Vents to	GRP0005	Gas Thermal Oxidizers CAP
RLP0035	2nd Acid Wastewater stripper Vent	Vents to	GRP0005	Gas Thermal Oxidizers CAP
RLP0036	OHC Train CO2 Stripper Process Vents	Vents to	GRP0005	Gas Thermal Oxidizers CAP
RLP0037	OHC Train CO2 Stripper Process Vents	Vents to	GRP0005	Gas Thermal Oxidizers CAP
RLP0038	DC Reactor Process Vent	Vents to	GRP0005	Gas Thermal Oxidizers CAP
RLP0039	Process Wastewater Stripper Vents	Vents to	GRP0005	Gas Thermal Oxidizers CAP
RLP0040	Process Wastewater Stripper Vents	Vents to	GRP0005	Gas Thermal Oxidizers CAP

Subject Item Groups:

ID	Group Type	Group Description
GRP0005	Equipment Group	2M-CAP - Gas Thermal Oxidizers CAP
UNF0001	Unit or Facility Wide	Entire Facility - Entire Facility

Group Memberships:

ID	Description	Member of Groups
EQT0126	2M-5 - Gas Thermal Oxidizer A	GRP0000000005
EQT0127	2M-6 - Gas Thermal Oxidizer B	GRP0000000005

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

Annual Maintenance Fee:

Fee Number	Air Contaminant Source	Multiplier	Units Of Measure
0690	Chemical and Chemical Prep. N.E.C. (Rated Capacity)	1800	MM Lb/Yr

SIC Codes: